



DATE: 02-15-2000  
REVISION: D  
W.O. No.: 67134  
CUSTOMER: CENTORR VACC.  
LOCATION: NASHUA  
LOCATION: NH

**INFRARAIL SPECIAL NUMBER R703**

**PURPOSE AND DESCRIPTION:**

CUSTOMER REQUIRES A SPECIAL TEMPERATURE RANGE INFRARAIL SYSTEM WITH A SPECIAL LIMITING APERTURE TO LIMIT THE CONE OF VISION AT THE LENS TO A DIAMETER NO LARGER THAN 0.200 INCHES. IN ADDITION, THE INSTRUMENT ALSO HAS A SPECIAL GROUNDING INTERCONNECTING CABLE.

MODEL: DNE99-99C  
RANGE: 1400 - 2400 DEG. C  
OPTICAL RESOLUTION: D/100 AT 15 INCHES  
OBJECTIVE APERTURE: 0.200 INCHES.

**GENERALITY OF APPLICATION AND RESTRICTRIONS:**

UNRESTRICTED, SUITABLE FOR USE WITH ALL STANDARD OPTIONS.

WRITTEN BY:

AMI DONADO

AMI DONADO

APPROVED BY:

AMI DONADO

DATE:

2-15-2000

## INFRARAIL SPECIAL NUMBER R703, CONTINUED

### PRODUCTION INSTRUCTIONS:

START WITH A MODEL DNE31-30C ELECTRONIC MODULE AND CHANGE THE M1 MODULE PER BILL ON PAGE 3.

START WITH A STANDARD E/F SERIES INTERCONNECTING CABLE BUT FOLLOW ASSEMBLY INSTRUCTIONS LISTED ON ASSEMBLY DRAWING No. EX-4462. DO NOT DISCARD ANY CONNECTOR PARTS.

START WITH A MODEL DNE31-30C SENSOR AND MAKE THE FOLLOWING CHANGES:

1. REPLACE THE STANDARD FIELD STOP P.N. 447382 WITH FIELD STOP P.N. 44747-2 (0.190 INCH DIA.)
2. REPLACE THE STANDARD LENS WITH LENS PART NUMBER 61042-2 (15 INCH FOCAL DISTANCE).

### CALIBRATION INSTRUCTIONS:

CALIBRATE AS PER STANDARD.

REFER TO CURRENT OUTPUT TABLE ON PAGE 4.

**NOTE: SENSING HEAD FOCAL DISTANCE IS 15 INCHES.**

### MANUAL INSTRUCTIONS:

GENERIC INFRARAIL SERIES MANUAL.

REFER TO MIRAGE SPECIAL K701 FOR OPTICAL RESOLUTION SUMMARY. OMIT TEMPERATURE RESTRICTIONS.

INCLUDE IN THE MANUAL THAT THE SENSOR'S CASE IS GROUNDED THROUGH THE INTERCONNECTING CABLE. THE CUSTOMER DOES NOT NEED TO INSTALL A SEPARATE GROUND WIRE AS NOTED IN SECTION 2E.4 OF THE OPERATION MANUAL. HOWEVER, THE SENSOR **MUST NOT** BE MOUNTED ON A SURFACE THAT IS CONNECTED TO EARTH GROUND. IF THIS IS DONE, THE ELECTRONIC MODULE'S POWER SUPPLY WILL BE DAMAGED.

## INFRARAIL SPECIAL NUMBER R703

REVISION: D  
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## MI MODULE ASSEMBLY BILL OF MATERIAL

<u>SYMBOL</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>		
R1	105762011	RESISTOR	57.6K	OHM METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7K	OHM METAL FILM 1/4W 1%
R54	101583011	RESISTOR	158K	OHM METAL FILM 1/4W 1%
R45	101072011	RESISTOR	10.7K	OHM METAL FILM 1/4W 1%
R55	104422011	RESISTOR	44.2K	OHM METAL FILM 1/4W 1%
R46	108871011	RESISTOR	8.87K	OHM METAL FILM 1/4W 1%
R56	106192011	RESISTOR	61.9K	OHM METAL FILM 1/4W 1%
R47	106651011	RESISTOR	6.65K	OHM METAL FILM 1/4W 1%
R57	108662011	RESISTOR	86.6K	OHM METAL FILM 1/4W 1%
R48	104991011	RESISTOR	4.99K	OHM METAL FILM 1/4W 1%
R58	101243011	RESISTOR	124K	OHM METAL FILM 1/4W 1%
R49	103571011	RESISTOR	3.57K	OHM METAL FILM 1/4W 1%
R59	101783011	RESISTOR	178K	OHM METAL FILM 1/4W 1%
R50	102491011	RESISTOR	2.49K	OHM METAL FILM 1/4W 1%
R60	102613011	RESISTOR	261K	OHM METAL FILM 1/4W 1%
R51	101741011	RESISTOR	1.74K	OHM METAL FILM 1/4W 1%
R61	103833011	RESISTOR	383K	OHM METAL FILM 1/4W 1%
R52	101151011	RESISTOR	1.15K	OHM METAL FILM 1/4W 1%
R53	101961011	RESISTOR	1.96K	OHM METAL FILM 1/4W 1%
R62	105903011	RESISTOR	590K	OHM METAL FILM 1/4W 1%

INFRARAIL SPECIAL NUMBER R703  
TEMPERATURE RANGE: 1400 TO 2400 DEGREES C  
SPECTRUM: 0.70 TO 1.00 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN $\mu$ AMPS	INDICATOR OUTPUT mAMPS
1400.0	1.3681	4.000
1425.0	1.5789	4.400
1450.0	1.8148	4.800
1475.0	2.0781	5.200
1500.0	2.3709	5.600
1525.0	2.6954	6.000
1550.0	3.0540	6.400
1575.0	3.4492	6.800
1600.0	3.8833	7.200
1625.0	4.3590	7.600
1650.0	4.8790	8.000
1675.0	5.4458	8.400
1700.0	6.0622	8.800
1725.0	6.7310	9.200
1750.0	7.4551	9.600
1775.0	8.2373	10.000
1800.0	9.0806	10.400
1825.0	9.9880	10.800
1850.0	10.9623	11.200
1875.0	12.0066	11.600
1900.0	13.1240	12.000
1925.0	14.3176	12.400
1950.0	15.5903	12.800
1975.0	16.9452	13.200
2000.0	18.3855	13.600
2025.0	19.9141	14.000
2050.0	21.5342	14.400
2075.0	23.2489	14.800
2100.0	25.0611	15.200
2125.0	26.9740	15.600
2150.0	28.9905	16.000
2175.0	31.1136	16.400
2200.0	33.3464	16.800
2225.0	35.6917	17.200
2250.0	38.1524	17.600
2275.0	40.7315	18.000
2300.0	43.4317	18.400
2325.0	46.2560	18.800
2350.0	49.2070	19.200
2375.0	52.2874	19.600
2400.0	55.5000	20.000

## Section 1 — GENERAL INFORMATION

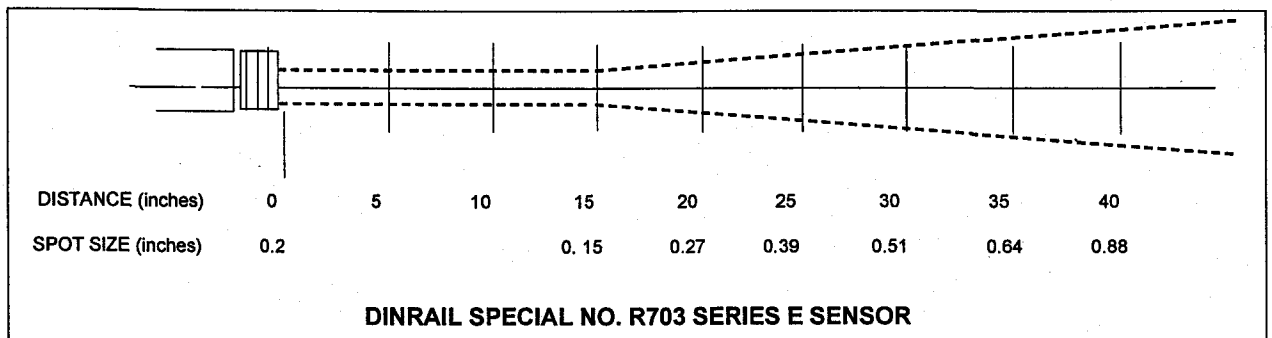
### 1.6 PRODUCT MODIFICATION

IRCON InfraRail Model DNE99-99C, is modified for a special temperature range of 1400 to 2400°C and a special spot size of 0.15 inch at a distance of 15 inches. This instrument has an optical resolution of D/100. In addition, the instrument is also equipped with a special grounded interconnecting cable.

Special components are used in the sensor, and the instrument has been factory calibrated for linear operation throughout the special temperature range.

Per customer request, the sensor is automatically grounded through the interconnecting cable. As such, no external grounding, as explained in section 2E, page 2E-6 of this manual, is required. However, due to this change, the sensor must never be mounted on any surface that is connected to earth ground. Doing so will cause damage to the electronic module.

The sensor's cone of vision can be no greater than 0.2 inch diameter at the lens. This is accomplished with a special limiting objective aperture that will project a 0.15 inch spot at a distance of 15 inches for a D/100 resolution. See revised Figure 2E.4 below for spot size vs. distance relationship. This diagram replaces the standard one shown on section 2E page 2E-3 of this manual.



This modified instrument may be used with all standard InfraRail options and accessories.

Details of this modification are retained in IRCON Engineering Files as InfraRail Special No. R703.

**NOTE:** Ircon Inc., is the sole owner in all respects of any product or software modification or design herein specified.

USE THIS

2-20-02

### 1.6 PRODUCT MODIFICATION

IRCON InfraRail Model DNE99-99C, is modified for a special temperature range of 1400 to 2400°C and a special optical resolution of D/100 with a 15 inch focal distance.

***CAUTION! Do not follow mounting instructions on page 2E-6 of this manual!!***

This instrument is supplied with a special interconnecting cable that provides proper sensor grounding.

***To prevent damage to the electronics module and power supply, the sensor must be mounted on a surface that is not at earth ground potential.***

If the mounting surface is at earth ground potential, then the sensor must be mounted to this surface using insulating material.

Special components are used in the signal processor module, and the instrument has been factory calibrated for linear operation throughout the special temperature range.

This modified instrument may be used with all standard InfraRail options and accessories.

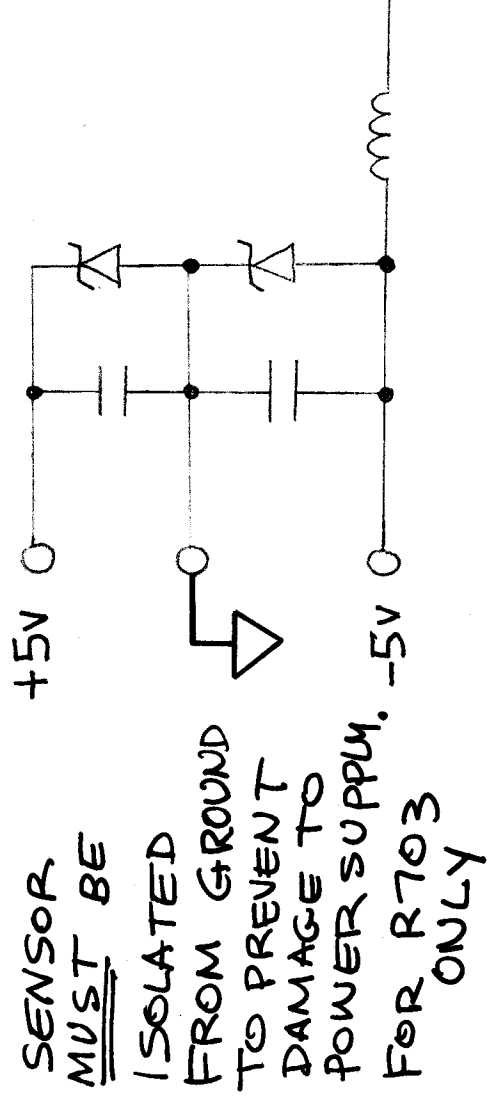
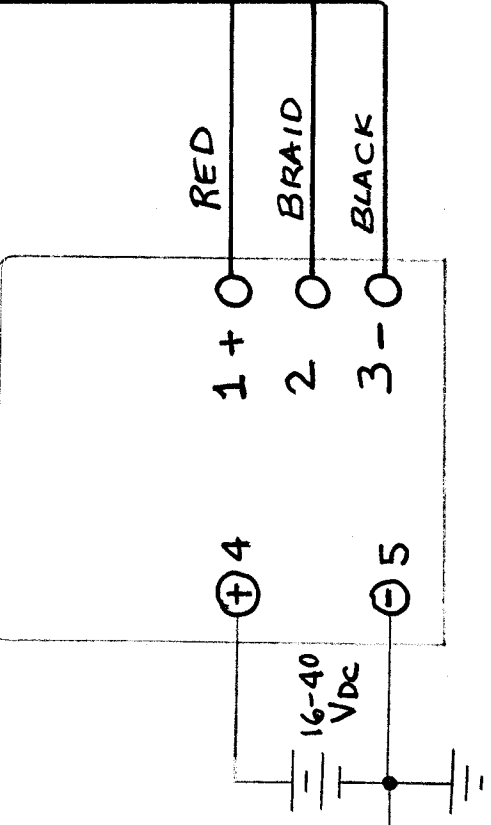
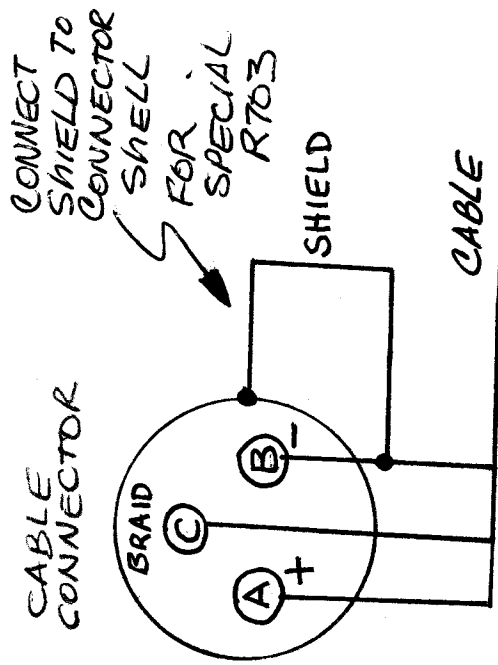
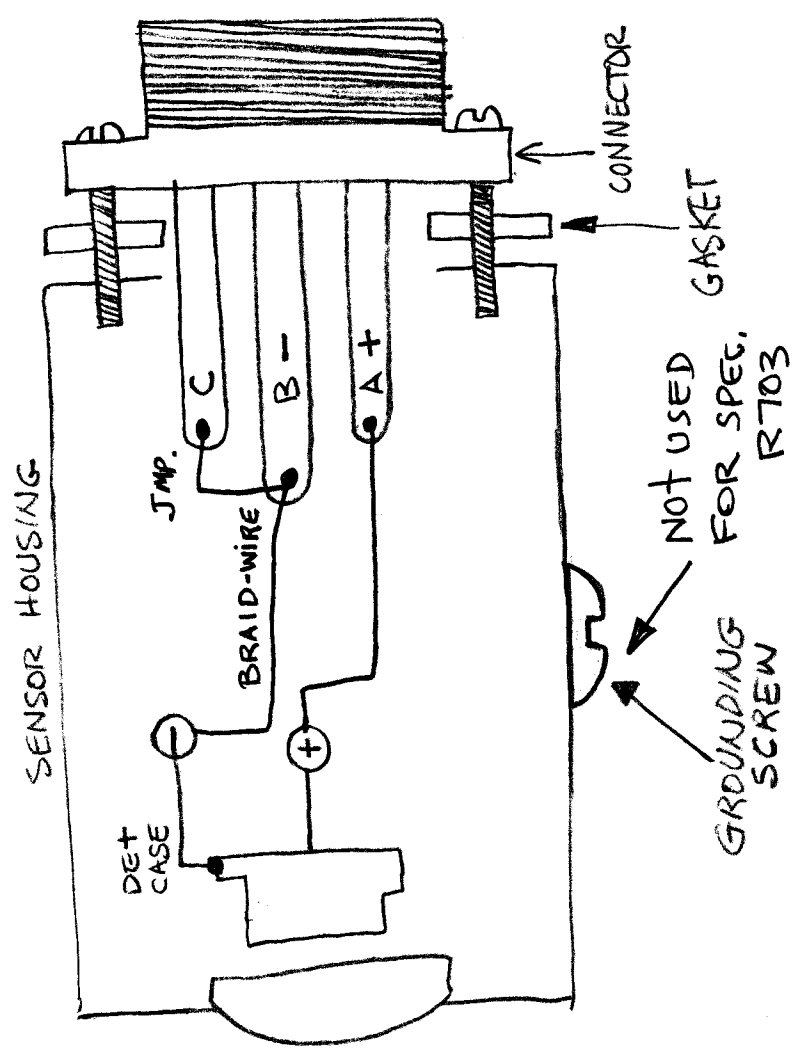
Details of this modification are retained in IRCON Engineering Files as InfraRail Special No. R703.

***NOTE:*** Ircon Inc., is the sole owner in all respects of any product or software modification or design herein specified.

**DRAWING(S) TOO LARGE  
TO SCAN.**

**TO VIEW THE ORIGINAL  
DESIGN,  
A REQUEST TO VIEW  
PHYSICAL FILE  
IS YOUR NEXT OPTION.**

# "E" HEAD WIRING



**SENSOR MUST BE ISOLATED FROM GROUND TO PREVENT DAMAGE TO POWER SUPPLY. FOR R703 ONLY**

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. 101027  
OXY-GON INDUSTRIES, INC.  
P O BOX 40  
EPSOM, NH 03234

SHIPPING ADDRESS TAX CODE  
OXY-GON INDUSTRIES, INC.  
42 OLD ROUTE 28  
EPSOM, NH 03234

REQUEST DATE (MM-DD-YY) 11-22-01 PROMISE DATE (MM-DD-YY) 11-22-01  
OUR ORDER NO. 78822 ORDER DATE (MM-DD-YY) 10-26-01  
YOUR ORDER NO. 9160  
TERMS 0.00/0/30  
F.O.B. ORIGIN  
CODE 1103 (100.00)  
VIA UPS  
SPECIAL SHIPPING INSTRUCTIONS

*DNE99-99c*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#11304 <i>W.O. #10574</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C	4	0.00	2180.00	8720.00
2	551202	DN_DNE31-13C  POWER SUPPLY 120AC/24DC 1 RAIL MOUNT. MUST HAVE CE	4	0.00	125.00	500.00
					<b>GRAND TOTAL</b>	

*Redo Spec No R703  
Temp range 1400-2400C  
D/100 at 15 inch Dist  
+ 0.12 restrict aperture*

*RAB  
10/26*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO \_\_\_\_\_ CUSTOMER NO. 002230

BRUMARK  
AV. NOSSA SRA.  
DAS GARCAS. 690 DIADEMA  
SAO PAULO CEP,  
BRAZIL

SHIPPING ADDRESS \_\_\_\_\_ TAX CODE \_\_\_\_\_

BRUMARK  
AV. NOSSA SRA.  
DAS GARCAS. 690 DIADEMA  
SAO PAULO CEP,  
BRAZIL

REQUEST DATE (MM-DD-YY) 01-26-01 PROMISE DATE (MM-DD-YY) 01-26-01

OUR ORDER NO. 76128 ORDER DATE (MM-DD-YY) 12-18-00

YOUR ORDER NO. VB-1981

TERMS

Cash in Advance

F.O.B.

ORIGIN

CODE

1073 (100.00)

VIA

MSAS

SPECIAL SHIPPING INSTRUCTIONS

*99-99C*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#7994 <i>w.o. #8378</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 4 meters. 12ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C  DN_DNE31-13C	1	0.00	1760.00	1760.00
						<b>GRAND TOTAL</b>

*Reds Special No R703  
Temp range 1400-2400C  
D/100 resolution at 15 inch*

*12/18*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

*Keep For Reference*

PAGE 1 OF 4

DATE: 02-15-2000  
REV.: D  
W.O.: 67134  
CUSTOMER: CENTORR/VACUUM  
LOCATION: NASHUA  
LOCATION: NH

INFRARAIL SPECIAL NUMBER R703

PURPOSE AND DESCRIPTION:

THE CUSTOMER REQUIRES AN INFRARAIL TEMPERATURE SYSTEM WITH A SPECIAL TEMPERATURE RANGE AND SPECIAL LIMITING APERTURE TO LIMIT THE CONE OF VISION AT THE LENS TO A DIAMETER NO LARGER THAN 0.200 INCHES. ALSO, THE INSTRUMENT HAS A SPECIAL GROUNDED INTERCONNECTING CABLE.

MODEL: DNE99-99C  
RANGE: 1400 - 2400 DEG. C  
OPTICAL RESOLUTION: D/100 AT 15 INCHES  
SPECIAL LIMITING OBJECTIVE APERTURE: 0.200 INCHES

*Check R707  
pages 1*

GENERALITY OF APPLICATION AND RESTRICTIONS:

UNRESTRICTED, SUITABLE WITH ALL STANDARD OPTIONS.

WRITTEN BY: Ami DONADO DATE: 2-15-00  
AMI DONADO

APPROVED BY: Ami DONADO DATE: 2-15-00

BOM Number : DN#7533 - IRCON INFRARAIL IRT

SO-LI: 75719\*2

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
1	DN0DNE	DN PRICES	1.0000	EA		M P				
1	C11201	SENSING HEAD FINAL ASSEMB	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD,.2	1.0000	EA		B	3709	05-17-96		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-96		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-96		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-96		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-96		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-96		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-96		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-96		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-96		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-96		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-96		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-96		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-96		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-96		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2	990100004	EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2	447382	FIELD STOP, .437 DIA	1.0000	EA		B	3709	05-17-96		
2	610402	LENS PLANO CONVEX 30" F/L	1.0000	EA		B	3709	05-17-96		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-96		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	D11198	PVC-(INT/EXT-E/F SERIES) (	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		

*Before Changes.*

*(Keep for Reference)*

BOM Number : DN#7533 - IRCON INFRARAIL IRT

SO-LI: 75719\*2

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use.
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-E3113C	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	101474011	RES. 1.47M OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101213011	RES. 121K OHM MF 1/4W 1%	1.0000	EA		B				
2	101332011	RES. 13.3K OHM MF 1/4W 1%	1.0000	EA		B				
2	105492011	RES. 54.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	109531011	RES. 9.53K OHM MF 1/4W 1%	1.0000	EA		B				
2	108452011	RES. 84.5K OHM MF 1/4W 1%	1.0000	EA		B				
2	106341011	RES. 6.34K OHM MF 1/4W 1%	1.0000	EA		B				
2	101303011	RES. 130K OHM MF 1/4W 1%	1.0000	EA		B				
2	104221011	RES. 4.22K OHM MF 1/4W 1%	1.0000	EA		B				
2	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B				
2	102671011	RES. 2.67K OHM MF 1/4W 1%	1.0000	EA		B				
2	103323011	RES. 332K OHM MF 1/4W 1%	1.0000	EA		B				
2	101651011	RES. 1.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	105363011	RES. 536K OHM MF 1/4W 1%	1.0000	EA		B				
2	101001011	RES. 1.00K OHM MF 1/4W 1%	1.0000	EA		B				
2	109313011	RES. 931K OHM MF 1/4W 1%	1.0000	EA		B				
2	106040011	RES. 604 OHM MF 1/4W 1%	1.0000	EA		B				
2	107680011	RES. 768 OHM MF 1/4W 1%	1.0000	EA		B				
2	101584011	RES. 1.58M OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		

BOM Number : DN#7533 - IRCON INFRARAIL IRT

SO-LI: 75719\*2

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKO 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-96		

BOM Number : DN#7533 - IRCON INFRARAIL IRT

SO-LI: 75719\*2

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	551122	CHOKO 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-96		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-96		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-96		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-96		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-96		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-96		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-96		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-96		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-96		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-96		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-96		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-96		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-97		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONN	1.0000	EA		M P	3671	04-08-96		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-96		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-96		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-96		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-96		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-96		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-96		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-96		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-96		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-96		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-96		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-96		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-96		

BOM Number : DN#7533 - IRCON INFRARAIL IRT

SO-LI: 75719\*2

.....Level.....	..Part Number..	.....Description.....	.Quantity.	.UM.	Alt.	MB X	.ECO No.	ECO Date	StartUse	End Use.
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-96		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-96		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-96		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-96		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-96		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-96		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

For Ref. Only

DATE: 02-15-2000

REV.: ~~EC~~

IF REV. E  
IS REQUIRED FOR SILICON CABLE  
THEN USE  
THIS

INFRARAIL SPECIAL NUMBER R703, CONTINUED

**PRODUCTION INSTRUCTIONS:**

START WITH A MODEL DNE31-30C ELECTRONIC MODULE AND MAKE THE FOLLOWING CHANGES:  
REFERENCE DWG. No. C11194: CHANGE THE M1 MODULE PER BILL ON PAGE 3.

**INTERCONNECTING CABLE INSTRUCTIONS:**

IF THE CUSTOMER REQUEST IS FOR PVC TYPE CABLE, THEN BUILD LIKE CABLE ASSY. No. **D11196** BUT FOLLOW ASSEMBLY INSTRUCTIONS PER DRAWING NUMBER **EX-4462**. (B.O.M. No. EX-4462). DO NOT DISCARD ANY CONNECTOR PARTS.

IF THE CUSTOMER REQUEST IS FOR HIGH TEMP SILICON TYPE CABLE, THEN BUILD LIKE CABLE ASSY. No. **D11216** BUT FOLLOW ASSEMBLY INSTRUCTIONS PER DRAWING NUMBER **EX-4462**. (B.O.M. No EX-4462-A). DO NOT DISCARD ANY CONNECTOR PARTS.

START WITH A MODEL DNE31-30C SENSOR AND MAKE THE FOLLOWING CHANGES:

1. REPLACE THE STANDARD FIELD STOP P.N. 447382 WITH FIELD STOP P.N. 44747-2 (0.190 INCH DIA.)
2. REPLACE THE STANDARD LENS WITH LENS PART NUMBER 61042-2 (15 INCH FOCAL DISTANCE).

**CALIBRATION INSTRUCTIONS:**

CALIBRATE AS PER STANDARD.

REFER TO CURRENT OUTPUT TABLE ON PAGE 4.

**NOTE: SENSING HEAD FOCAL DISTANCE IS 15 INCHES.**

**MANUAL INSTRUCTIONS:**

GENERIC INFRARAIL SERIES MANUAL.

REFER TO MIRAGE SPECIAL **K701** FOR OPTICAL RESOLUTION SUMMARY. OMIT TEMPERATURE RESTRICTIONS.

INCLUDE IN THE MANUAL THAT THE SENSOR'S CASE IS GROUNDED THROUGH THE INTERCONNECTING CABLE. THE CUSTOMER DOES NOT NEED TO INSTALL A SEPARATE GROUND WIRE AS NOTED IN SECTION 2E.4 OF THE OPERATION MANUAL. HOWEVER, THE SENSOR **MUST NOT** BE MOUNTED ON A SURFACE THAT IS CONNECTED TO EARTH GROUND. IF THIS IS DONE, THE ELECTRONIC MODULE'S POWER SUPPLY WILL BE DAMAGED.

PAGE 1 OF 4  
DATE: 08-20-1996  
REVISION: B  
W.O. NO: 61484  
CUSTOMER: IRCON LTD  
LOCATION: ENGLAND

SEE REV. C

A.D. 2-10-99

**INFRARAIL SPECIAL NUMBER R703**

**PURPOSE AND DESCRIPTION:**

CUSTOMER REQUIRES A INFRARAIL TEMPERATURE SYSTEM WITH A SPECIAL TEMPERATURE RANGE AND SPECIAL LIMITING OBJECTIVE APERTURE TO LIMIT THE CONE OF VISION AT THE LENS TO NO LARGER THAN 0.200 INCHES. DETAILS ARE AS FOLLOWS :

MODEL: DNE99-99C  
RANGE: 1400 - 2400 DEG. C  
OPTICAL RESOLUTION: D/100 AT 15 INCHES  
SPECIAL LIMITING OBJECTIVE APERTURE: 0.200 INCHES

**GENERALITY OF APPLICATION AND RESTRICTIONS:**

UNRESTRICTED: SUITABLE FOR USE WITH ALL STANDARD OPTIONS.

WRITTEN BY: \_\_\_\_\_

*J. Lakner*  
J. LAKNER

APPROVED BY: \_\_\_\_\_

*J. Lakner*

DATE: \_\_\_\_\_

*8/20/96*

**INFRARAIL SPECIAL NUMBER R703**

REVISION: B  
DATE: 08-20-1996

**PRODUCTION INSTRUCTIONS:**

START WITH A MODEL DNE31-30C ELECTRONICS MODULE, AND INSTALL M1 MODULE AS PER BILL OF MATERIAL ON PAGE 3.

START WITH A MODEL DNE31-30C SENSOR AND MAKE THE FOLLOWING CHANGES:

1. REPLACE FIELD STOP 447382(0.437 " I.D.) WITH FIELD STOP PART NUMBER 447472(0.190" DIA.).
2. REPLACE LENS 610402 (30" FOCAL DISTANCE) WITH LENS P.N. 610422 (15 " FOCAL DISTANCE).

**CALIBRATION INSTRUCTIONS:**

CALIBRATE AS PER STANDARD.  
REFER TO CURRENT OUTPUTS ON PAGE4.

**NOTE: FOCAL DISTANCE FOR SENSING HEAD IS 15 INCHES.**

**MANUAL INSTRUCTIONS:**

GENERIC INFRARAIL SERIES MANUAL.  
REFER TO MIRAGE SPECIAL K701 FOR THE OPTICAL RESOLUTION SUMMARY. OMIT TEMPERATURE RESTRICTION.

**INFRARAIL SPECIAL NUMBER R703**

REVISION: B

DATE: 08-20-1996

**M1 MODULE ASSEMBLY BILL OF MATERIAL**

<u>SYMBOL</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>		
R1	105762011	RESISTOR	57.6K OHM	METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7K OHM	METAL FILM 1/4W 1%
R54	101583011	RESISTOR	158K OHM	METAL FILM 1/4W 1%
R45	101072011	RESISTOR	10.7K OHM	METAL FILM 1/4W 1%
R55	104422011	RESISTOR	44.2K OHM	METAL FILM 1/4W 1%
R46	108871011	RESISTOR	8.87K OHM	METAL FILM 1/4W 1%
R56	106192011	RESISTOR	61.9K OHM	METAL FILM 1/4W 1%
R47	106651011	RESISTOR	6.65K OHM	METAL FILM 1/4W 1%
R57	108662011	RESISTOR	86.6K OHM	METAL FILM 1/4W 1%
R48	104991011	RESISTOR	4.99K OHM	METAL FILM 1/4W 1%
R58	101243011	RESISTOR	124K OHM	METAL FILM 1/4W 1%
R49	103571011	RESISTOR	3.57K OHM	METAL FILM 1/4W 1%
R59	101783011	RESISTOR	178K OHM	METAL FILM 1/4W 1%
R50	102491011	RESISTOR	2.49K OHM	METAL FILM 1/4W 1%
R60	102613011	RESISTOR	261K OHM	METAL FILM 1/4W 1%
R51	101741011	RESISTOR	1.74K OHM	METAL FILM 1/4W 1%
R61	103833011	RESISTOR	383K OHM	METAL FILM 1/4W 1%
R52	101151011	RESISTOR	1.15K OHM	METAL FILM 1/4W 1%
R53	101961011	RESISTOR	1.96K OHM	METAL FILM 1/4W 1%
R62	105903011	RESISTOR	590K OHM	METAL FILM 1/4W 1%

INFRARAIL SPECIAL NUMBER R703  
TEMPERATURE RANGE: 1400 TO 2400 DEGREES C  
SPECTRUM: 0.70 TO 1.00 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN uAMPS	INDICATOR OUTPUT mAMPS
1400.0	1.3681	4.000
1425.0	1.5789	4.400
1450.0	1.8148	4.800
1475.0	2.0781	5.200
1500.0	2.3709	5.600
1525.0	2.6954	6.000
1550.0	3.0540	6.400
1575.0	3.4492	6.800
1600.0	3.8833	7.200
1625.0	4.3590	7.600
1650.0	4.8790	8.000
1675.0	5.4458	8.400
1700.0	6.0622	8.800
1725.0	6.7310	9.200
1750.0	7.4551	9.600
1775.0	8.2373	10.000
1800.0	9.0806	10.400
1825.0	9.9880	10.800
1850.0	10.9623	11.200
1875.0	12.0066	11.600
1900.0	13.1240	12.000
1925.0	14.3176	12.400
1950.0	15.5903	12.800
1975.0	16.9452	13.200
2000.0	18.3855	13.600
2025.0	19.9141	14.000
2050.0	21.5342	14.400
2075.0	23.2489	14.800
2100.0	25.0611	15.200
2125.0	26.9740	15.600
2150.0	28.9905	16.000
2175.0	31.1136	16.400
2200.0	33.3464	16.800
2225.0	35.6917	17.200
2250.0	38.1524	17.600
2275.0	40.7315	18.000
2300.0	43.4317	18.400
2325.0	46.2560	18.800
2350.0	49.2070	19.200
2375.0	52.2874	19.600
2400.0	55.5000	20.000

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO \_\_\_\_\_ CUSTOMER NO. 006005

CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS \_\_\_\_\_ TAX CODE \_\_\_\_\_

CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 06-25-99 PROMISE DATE (MM-DD-YY) 06-25-99

OUR ORDER NO. 70778 ORDER DATE (MM-DD-YY) 06-07-99

YOUR ORDER NO. 71530

TERMS \_\_\_\_\_  
0.00/0/30

F.O.B. \_\_\_\_\_  
ORIGIN

CODE \_\_\_\_\_  
1025 (100.00)

VIA \_\_\_\_\_  
UPS

SPECIAL SHIPPING INSTRUCTIONS \_\_\_\_\_

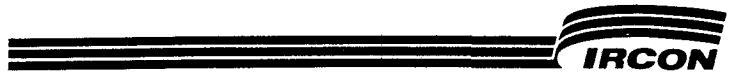
LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#1446 <i>W.O. 2160</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C  DN_DNE31-13C	2	0.00	1896.00	3792.00
		<i>Redo Speed No R203 - Temp range 1400-2400C D/100 at 15" distance aperture 0.2 inch.</i>				
		<i>Eng Chgs - \$350 ea</i>				
		<i>R203 6/8</i>				
<b>GRAND TOTAL</b>						<b>USD3,792.00</b>

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SCHEDULED SHIPPING WEEK MONTH/DAY/YEAR  
ENDING 03/13/99

OUR ORDER NO. ORDER DATE MONTH/DAY/YEAR  
SA 067134/00 02/08/99

YOUR ORDER NO. 69956

TERMS NET 30  
X OTHER

F.O.B. NILES, ILLINOIS  
X

CODE 328 .00 03/05/99

VIA UPS PPD. COLL.  
X

SPECIAL SHIPPING INSTRUCTIONS

SOLD TO CUSTOMER NO. 006005-01

CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA NH 03062-3126

SHIPPING ADDRESS TAX CODE  
NO TAX

CENTORR/VACUUM INDUSTRIES, INC  
55 NORTHEASTERN BLVD

NASHUA NH 03062-3126

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR	AMOUNT U.S. DOLLAR
01		1	INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 002904  CABLE(S) 50 FEET EA ( 50 FEET EA INCLUDED IN ABOVE) ***** * * SPECIAL Z999 * ***** !!!!!!!!!!WARNING!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **	EA		1896.00	1896.00
02	050312	2	INFRARAIL MANUAL	EA		.00	.00
SUB TOTALS							1896.00
GRAND TOTAL							1896.00

*Reds Special No R703 - Temp range 1400 - 2400C  
Restrict Aperture 0.2 inch  
1/100 resolution  
Plus add modification to ground to lead thru standard CATV cable*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE  
IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

Ship To: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

ORIGINAL

Part No. 020172 Rev C 12/95

SEE REV. B  
J. L. 8/20/96

PAGE 1 OF 3  
DATE: 06-27-1996  
REVISION: A  
W.O. NO: 61484  
CUSTOMER: IRCON LTD  
LOCATION: ENGLAND

**INFRARAIL SPECIAL NUMBER R703**

**PURPOSE AND DESCRIPTION:**

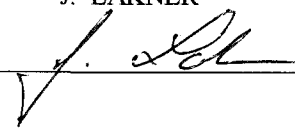
CUSTOMER REQUIRES A INFRARAIL TEMPERATURE SYSTEM WITH A SPECIAL TEMPERATURE RANGE AND SPECIAL LIMITING OBJECTIVE APERTURE TO LIMIT THE CONE OF VISION AT THE LENS TO NO LARGER THAN 0.200 INCHES. DETAILS ARE AS FOLLOWS :

MODEL: DNE99-99C  
RANGE: 1400 - 2400 DEG. C  
OPTICAL RESOLUTION: D/100 AT 15 INCHES  
SPECIAL LIMITING OBJECTIVE APERTURE: 0.200 INCHES

**GENERALITY OF APPLICATION AND RESTRICTIONS:**

UNRESTRICTED: SUITABLE FOR USE WITH ALL STANDARD OPTIONS.

WRITTEN BY:   
J. LAKNER

APPROVED BY:  DATE: 6-27-96

**INFRARAIL SPECIAL NUMBER R703**

REVISION: A  
DATE: 06-27-1996

**PRODUCTION INSTRUCTIONS:**

START WITH A MODEL DNE31-30C ELECTRONICS MODULE, AND INSTALL M1 MODULE AS PER BILL OF MATERIAL ON PAGE 3.

START WITH A MODEL DNE31-30C SENSOR AND MAKE THE FOLLOWING CHANGES:

1. REPLACE FIELD STOP 447382(0.437 " I.D.) WITH FIELD STOP PART NUMBER 447472(0.190" DIA.).
2. REPLACE LENS 610402 (30" FOCAL DISTANCE) WITH LENS P.N. 610422 (15 " FOCAL DISTANCE).

**CALIBRATION INSTRUCTIONS:**

CALIBRATE AS PER STANDARD.

**NOTE: FOCAL DISTANCE FOR SENSING HEAD IS 15 INCHES.**

**MANUAL INSTRUCTIONS:**

GENERIC INFRARAIL SERIES MANUAL.  
REFER TO MIRAGE SPECIAL K701 FOR THE OPTICAL RESOLUTION SUMMARY. OMIT TEMPERATURE RESTRICTION.

## INFRARAIL SPECIAL NUMBER R703

REVISION: A

DATE: 06-27-1996

## M1 MODULE ASSEMBLY BILL OF MATERIAL

<u>SYMBOL</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>			
R1	105762011	RESISTOR	57.6K	OHM	METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7K	OHM	METAL FILM 1/4W 1%
R54	101583011	RESISTOR	158K	OHM	METAL FILM 1/4W 1%
R45	101072011	RESISTOR	10.7K	OHM	METAL FILM 1/4W 1%
R55	104422011	RESISTOR	44.2K	OHM	METAL FILM 1/4W 1%
R46	108871011	RESISTOR	8.87K	OHM	METAL FILM 1/4W 1%
R56	106192011	RESISTOR	61.9K	OHM	METAL FILM 1/4W 1%
R47	106651011	RESISTOR	6.65K	OHM	METAL FILM 1/4W 1%
R57	108662011	RESISTOR	86.6K	OHM	METAL FILM 1/4W 1%
R48	104991011	RESISTOR	4.99K	OHM	METAL FILM 1/4W 1%
R58	101243011	RESISTOR	124K	OHM	METAL FILM 1/4W 1%
R49	103571011	RESISTOR	3.57K	OHM	METAL FILM 1/4W 1%
R59	101783011	RESISTOR	178K	OHM	METAL FILM 1/4W 1%
R50	102491011	RESISTOR	2.49K	OHM	METAL FILM 1/4W 1%
R60	102613011	RESISTOR	261K	OHM	METAL FILM 1/4W 1%
R51	101741011	RESISTOR	1.74K	OHM	METAL FILM 1/4W 1%
R61	103833011	RESISTOR	383K	OHM	METAL FILM 1/4W 1%
R52	101151011	RESISTOR	1.15K	OHM	METAL FILM 1/4W 1%
R53	101961011	RESISTOR	1.96K	OHM	METAL FILM 1/4W 1%
R62	105903011	RESISTOR	590K	OHM	METAL FILM 1/4W 1%

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Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SCHEDULED SHIPPING WEEK ENDING MONTH/DAY/YEAR 08/10/96

OUR ORDER NO. SA 061484/00 ORDER DATE MONTH/DAY/YEAR 06/21/96

YOUR ORDER NO. 6955

TERMS NET 30  
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

CODE 706 .00

VIA MSAS PPD. COLL. X

SPECIAL SHIPPING INSTRUCTIONS

ATTN: CAS ANWARD

SOLD TO CUSTOMER NO. 008243

IRCON LIMITED, UNIT 7  
THAME PARK BUSINESS CENTRE  
WENMAN ROAD, THAME OXON  
ENGLAND OX9 3XA

SHIPPING ADDRESS TAX CODE NO TAX

IRCON LIMITED  
C/O MSAS  
LONDON HEATHROW AIRPORT  
HEATHROW

6/21/96 PAGE 1

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH <del>U.S. DOLLARS</del>	AMOUNT <del>U.S. DOLLARS</del>	
01		2	INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 001215 THRU 001216	EA		507.20	1014.40	
			CABLE(S) 4 MET. EA ( 4 MET. EA INCLUDED IN ABOVE)					
			SPECIAL ENGINEERING CHARGES ***** * SPECIAL Z999 New Special temp range of * 1400 to 2400C, with * restrict aperture 0.2 inch * and focus at 15 inch on * E head. Sampler to ***** !!!!!!!!!!WARNING!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **			126.80	253.60	
			SUB TOTALS				1268.00	
			GRAND TOTAL				1268.00	
			BILLINGS IN POUNDS STERLING					

*AWB 6/24/96 Special K701 on Manager*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

Ship To: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

ORIGINAL

Part No. 020172 Rev C 12/95

MODLINE PLUS SPECIAL NUMBER CONTINUED,

BILL OF MATERIAL

MODEL: 2-99C10

MODULE M1 REFERENCE: DWG.NO.C-10864

SYMBOL	PART NO.	DESCRIPTION		
R45	101072011	RESISTOR	10.7 Kohm	METAL FILM 1/4W 1%
R55	104422011	RESISTOR	44.2 Kohm	METAL FILM 1/4W 1%
R46	108871011	RESISTOR	8.87 Kohm	METAL FILM 1/4W 1%
R56	106192011	RESISTOR	61.9 Kohm	METAL FILM 1/4W 1%
R47	106651011	RESISTOR	6.65 Kohm	METAL FILM 1/4W 1%
R57	108662011	RESISTOR	86.6 Kohm	METAL FILM 1/4W 1%
R48	104991011	RESISTOR	4.99 Kohm	METAL FILM 1/4W 1%
R58	101243011	RESISTOR	124 Kohm	METAL FILM 1/4W 1%
R49	103571011	RESISTOR	3.57 Kohm	METAL FILM 1/4W 1%
R59	101783011	RESISTOR	178 Kohm	METAL FILM 1/4W 1%
R50	102491011	RESISTOR	2.49 Kohm	METAL FILM 1/4W 1%
R60	102613011	RESISTOR	261 Kohm	METAL FILM 1/4W 1%
R51	101741011	RESISTOR	1.74 Kohm	METAL FILM 1/4W 1%
R61	103833011	RESISTOR	383 Kohm	METAL FILM 1/4W 1%
R52	101151011	RESISTOR	1.15 Kohm	METAL FILM 1/4W 1%
R53	101961011	RESISTOR	1.96 Kohm	METAL FILM 1/4W 1%
R62	105903011	RESISTOR	590 Kohm	METAL FILM 1/4W 1%
R1	105762011	RESISTOR	57.6 Kohm	METAL FILM 1/4W 1%

MODULE M2 REFERENCE: DWG.NO.C-10865

SYMBOL	PART NO.	DESCRIPTION		
R44	101871011	RESISTOR	18.7 Kohm	METAL FILM 1/4W 1%
R54	101583011	RESISTOR	158 Kohm	METAL FILM 1/4W 1%
R25	101001011	RESISTOR	1.00 Kohm	METAL FILM 1/4W 1%
J2	100000990	JUMPER, DUMMY RESISTOR		
J1	100000990	JUMPER, DUMMY RESISTOR		
C07	52102-2	CAPACITOR	33pF	CERAMIC
R36	105762011	RESISTOR	57.6 Kohm	METAL FILM 1/4W 1%
R38	101072011	RESISTOR	10.7 Kohm	METAL FILM 1/4W 1%
R39	101001011	RESISTOR	1.00 Kohm	METAL FILM 1/4W 1%
R40	108450011	RESISTOR	845 ohm	METAL FILM 1/4W 1%

MODLINE PLUS LINEARIZER ERROR CURVE

DATE : 06-27-1996

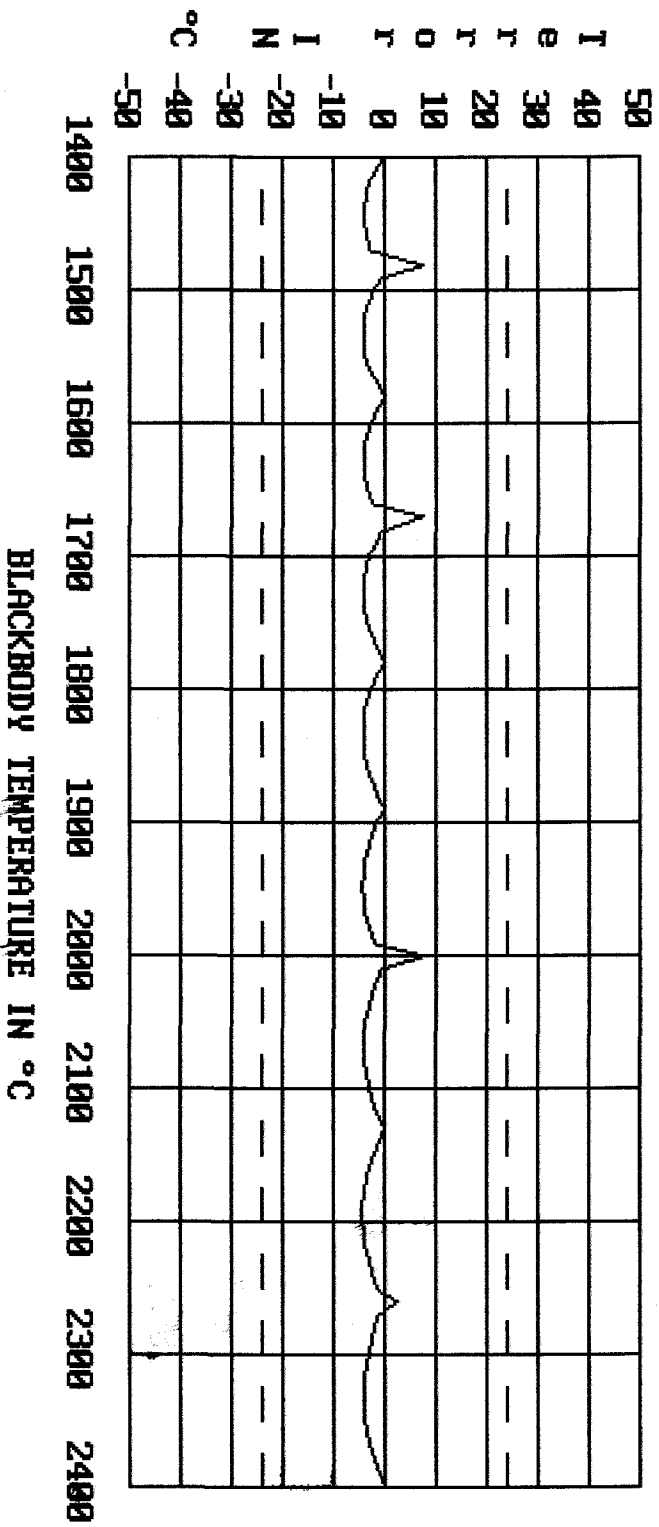
REU .

SPECIAL NO.

MODEL NO. 2-99C10

TEMP. SPAN : 1400 - 2400 DEG. C

SPECTRUM : .7 - 1 MICRONS



1-9-97

A-D.

ENGINEERING AID FORM

TO: \_\_\_\_\_

This form is to be used by

QA/Calibration: When aid is requested on products to be shipped.

Service: When aid is requested on a particular customer service problem.

Purchasing: When aid is requested to replace an existing part with a new part.

NOTE: Other requests for engineering aid should be made using the Corrective Action Form.

Use ECR Form for requests for changing engineering documentation.

Nothing Wrong with Unit. Test Fixture Faulty.

**QA/Calibration/Service**

It has been determined that Model # DN9999C Spi # R703  
Serial # 1491, produced on Work Order # 62481, with a ready date\* of  
11/19/97 has been reviewed for any latent manufacturing defect(s) and cannot be successfully  
calibrated due to the following symptom(s):

Linearizer out of Spec

The following unsuccessful steps have been taken to identify and isolate the root cause:

All Parts Built to Detail Specs

Kan C

QA/Calibration/Service

1/8/96 9:52 AM

Date & Time

\*For Calibration Only

**Purchasing**

It has been determined that part # \_\_\_\_\_ with description \_\_\_\_\_

cannot be suitably obtained because \_\_\_\_\_

New parts need to be obtained in a quantity of \_\_\_\_\_ by \_\_\_\_\_

The following unsuccessful steps have been taken to remedy the situation: \_\_\_\_\_

Purchasing

Date & Time

Initial Engineering recommendation: \_\_\_\_\_

Engineering

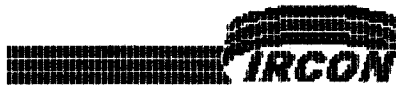
Date & Time

Initial QA/Calibration/Service/Purchasing action: \_\_\_\_\_

QA/Calibration/Service/Purchasing

Date & Time

01/08/97 10:37 AM



### INFRARAIL CALIBRATION TEST REPORT

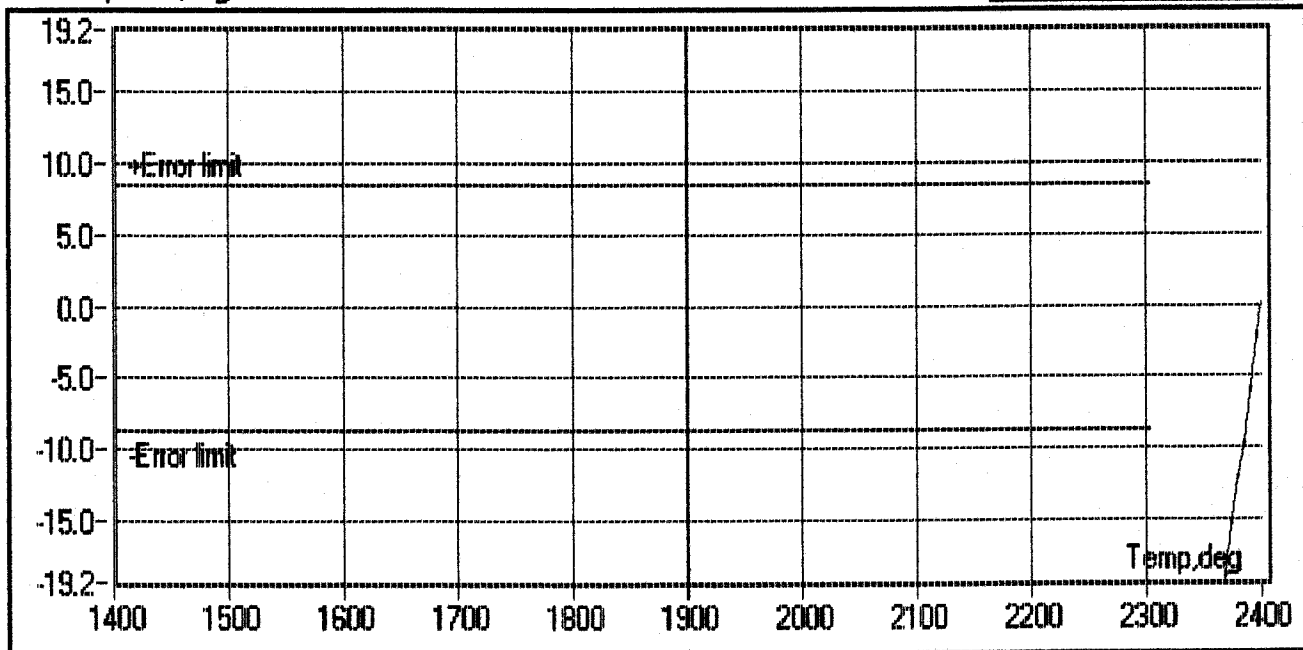
TECHNICIAN# 336 SERIAL# 1491

MODEL# DN 99-99C SPECIAL# R703

FULL SCALE	2400C	FS CURRENT=	55.500	uA	$\lambda_{max}$ =	1.00
ZERO SCALE	1400C	ZS CURRENT=	1.368	uA	$\lambda_{min}$ =	0.70

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2 V	$3.2 \pm 0.005$ V	3.200	P
2. CURRENT OUTPUT	$4 \pm 0.05$ mA $20 \pm 0.05$ mA	4.00 19.98	P
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	$10 \pm 2$ S $10 \pm 2$ mS	10.3 10.0	P
6. P-P DECAY RATE	$< 0.05\%$ 5 - 6.5 %	0.032 6.6	P

Temp. Error, deg



Tech# \_\_\_\_\_ DATE \_\_\_\_\_ QA# \_\_\_\_\_

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Toll Free 800-323-7660  
Fax 847-647-0948

SCHEDULED SHIPPING WEEK ENDING MONTH/DAY/YEAR 08/16/97

SOLD TO CUSTOMER NO. 008243

OUR ORDER NO. SA 063772/00 ORDER DATE MONTH/DAY/YEAR 06/23/97

IRCON LIMITED, UNIT 7  
THAME PARK BUSINESS CENTRE  
WENMAN ROAD, THAME OXON  
ENGLAND OX9 3XA

YOUR ORDER NO. 7208

TERMS NET 30  
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

SHIPPING ADDRESS TAX CODE NO TAX

CODE 706 .00

IRCON LIMITED  
C/O MSAS  
LONDON HEATHROW AIRPORT  
HEATHROW

VIA MSAS PPD. COLL. X

SPECIAL SHIPPING INSTRUCTIONS

ATTN: CAS ANWARD

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLARS	AMOUNT U.S. DOLLARS
01		1	INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 001892	EA		494.08	494.08
			CABLE(S) 4 MET. EA ( 4 MET. EA INCLUDED IN ABOVE)				
			PRODUCT MODIFICATION CHARGES ***** * * SPECIAL Z999			123.52	123.52
			***** !!!!!!!!!!!!!!WARNING!!!!!!!!!!!!!! ** SFL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **				
			SUB TOTALS				617.60
			GRAND TOTAL				617.60

BILLINGS IN POUNDS STERLING

*Handwritten notes:*  
R203  
Redw Spec No 6701 - Temp range 1400-2400c and 0.2 restrict aperture  
MBG/24

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

Ship To: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

ORIGINAL

**DRAWING (S) TOO LARGE  
TO SCAN.**

**TO VIEW THE ORIGINAL  
DESIGN,  
A REQUEST TO VIEW  
PHYSICAL FILE  
IS YOUR NEXT OPTION.**

MISC COMMENT: NIT = L11201

LV BERM COMPONENT NO QUANTITY SYM ITEM DESCRIPTION

01 0010 400032

CABLE ENDING 10 PER 1000 ORANGE 100' FOOT FOR STRIPPING

01 0015 40002

SLIDING END OF BERM CABLE

01 0020 40001

CONNECTOR END STRIP JACKET 10' CODE CUT AND SEPARATE BERM WIRE

*STANDARD.  
FOR REFERENCE ONLY.*

01 0025 40004

INDICATOR END STRIP JACKET 10' CODE CUT AND SEPARATE BERM WIRE

01 0040 40002

1 00 EA N →

2 CONN WIRE 100' ORANGE 100' FOOT FOR STRIPPING

(ITEM 20) = ROCKER PROMPT (ITEM 20) = BACKSHEAF

01 0050 42100000

4A WIRE AND TWC BERM WIRE 100' ORANGE 100' FOOT FOR STRIPPING

WIRES TO CONNECTOR

01 0060 30100000

5 TURNING AND END BERM WIRE 100' ORANGE 100' FOOT FOR STRIPPING

01 0070 40003

ATTACH ALL WIRES TO BERM IN TADU 10' ORANGE

LV SECT	COMPONENT NO	QUANTITY	UM	SYN/ITEM	DESCRIPTION
01	0100	2200	EA		
01	0105	2200	EA		
01	0110	4000	EA		
01	0120	4000	EA		

Q1 (2) PIECES TO 1-1/4 INCHES LONG

APPLY ON JACKET & WIRES APPROX HALF WAY ON CONN END, 1/4"

(EACH ENDS OF CONDUIT)

APPLY (2) DROPS OPPOSITE EACH OTHER ON (LITH 2) CONN. THREAD

APPLY LABEL TO JACKET AT CONNECT END APPROX 2 INCHES

(AS SHOWN ON DRAWING)

\*\*\*END OF REPORT\*\*\*

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

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Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO \_\_\_\_\_ CUSTOMER NO. 006005

CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS \_\_\_\_\_ TAX CODE \_\_\_\_\_

CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 09-29-00 PROMISE DATE (MM-DD-YY) 09-29-00

OUR ORDER NO. 75228 ORDER DATE (MM-DD-YY) 09-13-00

YOUR ORDER NO. 0077293

TERMS 0.00/0/30

F.O.B. ORIGIN

CODE 1103 (100.00)

VIA UPS

SPECIAL SHIPPING INSTRUCTIONS \_\_\_\_\_

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#6837 <i>W.O.# 7577 OK 0006 9-14-00</i>	DN_DNE31-20C IRCON INFRARAIL IRT SYSTEM-COMPLETE <i>Rec'd Spec No R703 Temp 1400 - 2400C D/100 at 15" &amp; Restruct aperture of 0.2"</i> Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 1100-2000C	3	0.00	1960.00	5880.00
2	050312	DN_DNE31-20C INFRARAIL MANUAL	3	0.00	0.00	0.00
<b>GRAND TOTAL</b>						

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

DATE: 02-15-2000  
REV.: D  
W.O.: 67134  
CUSTOMER: CENTORR/VACUUM  
LOCATION : NASHUA  
LOCATION : NH

INFRARAIL SPECIAL NUMBER R703

PURPOSE AND DESCRIPTION:

THE CUSTOMER REQUIRES AN IFRARAIL TEMPERATURE SYSTEM WITH A SPECIAL TEMPERATURE RANGE AND SPECIAL LIMITING APERTURE TO LIMIT THE CONE OF VISION AT THE LENS TO A DIAMETER NO LARGER THAN 0.200 INCHES. ALSO, THE INSTRUMENT HAS A SPECIAL GROUNDED INTERCONNECTING CABLE.

MODEL: DNE99-99C  
RANGE: 1400 - 2400 DEG. C  
OPTICAL RESOLUTION: D/100 AT 15 INCHES  
SPECIAL LIMITING OBJECTIVE APERTURE: 0.200 INCHES

GENERILITY OF APPLICATION AND RESTRICTIONS:

UNRESTRICTED, SUITABLE WITH ALL STANDARD OPTIONS.

WRITTEN BY: Ami DONADO DATE: 2-15-00  
AMI DONADO  
APPROVED BY: Ami DONADO DATE: 2-15-00

INFRARAIL SPECIAL NUMBER R703, CONTINUED

PRODUCTION INSTRUCTIONS:

START WITH A MODEL DNE31-30C ELECTRONIC MODULE AND CHANGE THE M1 MODULE PER BILL ON PAGE 3.

START WITH A STANDARD E/F SERIES INTERCONNECTING CABLE BUT FOLLOW ASSEMBLY INSTRUCTIONS LISTED ON ASSEMBLY DRAWING No. EX-4462. DO NOT DISCARD ANY CONNECTOR PARTS.

START WITH A MODEL DNE31-30C SENSOR AND MAKE THE FOLLOWING CHANGES:

1. REPLACE THE STANDARD FIELD STOP P.N. 447382 WITH FIELD STOP P.N. 44747-2 (0.190 INCH DIA.)
2. REPLACE THE STANDARD LENS WITH LENS PART NUMBER 61042-2 (15 INCH FOCAL DISTANCE).

CALIBRATION INSTRUCTIONS:

CALIBRATE AS PER STANDARD.

REFER TO CURRENT OUTPUT TABLE ON PAGE 4.

**NOTE: SENSING HEAD FOCAL DISTANCE IS 15 INCHES.**

MANUAL INSTRUCTIONS:

GENERIC INFRARAIL SERIES MANUAL.

REFER TO MIRAGE SPECIAL K701 FOR OPTICAL RESOLUTION SUMMARY. OMIT TEMPERATURE RESTRICTIONS.

INCLUDE IN THE MANUAL THAT THE SENSOR'S CASE IS GROUNDED THROUGH THE INTERCONNECTING CABLE. THE CUSTOMER DOES NOT NEED TO INSTALL A SEPARATE GROUND WIRE AS NOTED IN SECTION 2E.4 OF THE OPERATION MANUAL. HOWEVER, THE SENSOR **MUST NOT** BE MOUNTED ON A SURFACE THAT IS CONNECTED TO EARTH GROUND. IF THIS IS DONE, THE ELECTRONIC MODULE'S POWER SUPPLY WILL BE DAMAGED.

## INFRARAIL SPECIAL NUMBER R703

REVISION: D  
DATE: 02-15-2000

## MI MODULE ASSEMBLY BILL OF MATERIAL

<u>SYMBOL</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>		
R1	105762011	RESISTOR	57.6K OHM	METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7K OHM	METAL FILM 1/4W 1%
R54	101583011	RESISTOR	158K OHM	METAL FILM 1/4W 1%
R45	101072011	RESISTOR	10.7K OHM	METAL FILM 1/4W 1%
R55	104422011	RESISTOR	44.2K OHM	METAL FILM 1/4W 1%
R46	108871011	RESISTOR	8.87K OHM	METAL FILM 1/4W 1%
R56	106192011	RESISTOR	61.9K OHM	METAL FILM 1/4W 1%
R47	106651011	RESISTOR	6.65K OHM	METAL FILM 1/4W 1%
R57	108662011	RESISTOR	86.6K OHM	METAL FILM 1/4W 1%
R48	104991011	RESISTOR	4.99K OHM	METAL FILM 1/4W 1%
R58	101243011	RESISTOR	124K OHM	METAL FILM 1/4W 1%
R49	103571011	RESISTOR	3.57K OHM	METAL FILM 1/4W 1%
R59	101783011	RESISTOR	178K OHM	METAL FILM 1/4W 1%
R50	102491011	RESISTOR	2.49K OHM	METAL FILM 1/4W 1%
R60	102613011	RESISTOR	261K OHM	METAL FILM 1/4W 1%
R51	101741011	RESISTOR	1.74K OHM	METAL FILM 1/4W 1%
R61	103833011	RESISTOR	383K OHM	METAL FILM 1/4W 1%
R52	101151011	RESISTOR	1.15K OHM	METAL FILM 1/4W 1%
R53	101961011	RESISTOR	1.96K OHM	METAL FILM 1/4W 1%
R62	105903011	RESISTOR	590K OHM	METAL FILM 1/4W 1%

INFRARAIL SPECIAL NUMBER R703  
TEMPERATURE RANGE: 1400 TO 2400 DEGREES C  
SPECTRUM: 0.70 TO 1.00 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN uAMPS	INDICATOR OUTPUT mAMPS
1400.0	1.3681	4.000
1425.0	1.5789	4.400
1450.0	1.8148	4.800
1475.0	2.0781	5.200
1500.0	2.3709	5.600
1525.0	2.6954	6.000
1550.0	3.0540	6.400
1575.0	3.4492	6.800
1600.0	3.8833	7.200
1625.0	4.3590	7.600
1650.0	4.8790	8.000
1675.0	5.4458	8.400
1700.0	6.0622	8.800
1725.0	6.7310	9.200
1750.0	7.4551	9.600
1775.0	8.2373	10.000
1800.0	9.0806	10.400
1825.0	9.9880	10.800
1850.0	10.9623	11.200
1875.0	12.0066	11.600
1900.0	13.1240	12.000
1925.0	14.3176	12.400
1950.0	15.5903	12.800
1975.0	16.9452	13.200
2000.0	18.3855	13.600
2025.0	19.9141	14.000
2050.0	21.5342	14.400
2075.0	23.2489	14.800
2100.0	25.0611	15.200
2125.0	26.9740	15.600
2150.0	28.9905	16.000
2175.0	31.1136	16.400
2200.0	33.3464	16.800
2225.0	35.6917	17.200
2250.0	38.1524	17.600
2275.0	40.7315	18.000
2300.0	43.4317	18.400
2325.0	46.2560	18.800
2350.0	49.2070	19.200
2375.0	52.2874	19.600
2400.0	55.5000	20.000

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. 006005  
  
CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS TAX CODE  
  
CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 11-17-00 PROMISE DATE (MM-DD-YY) 11-17-00  
OUR ORDER NO. 75719 ORDER DATE (MM-DD-YY) 11-06-00  
YOUR ORDER NO. 78146  
TERMS 0.00/0/30  
F.O.B. ORIGIN  
CODE 1103 (100.00)  
VIA UPS  
SPECIAL SHIPPING INSTRUCTIONS

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	SR#7532	SR-24CF2-0-0-0 IRCON SR RATIO IRT COMPLETE  Consists of the following: 1.0000 - FIB OPT SH 1.0000 - Std Cbl Lgth 33ft 1.0000 - 900-2400C D/60 3FT 1.0000 - CLOSE FOCUS LENS 1.0000 - .1 SECOND 1.0000 - 4 TO 20 mA DC 1.0000 - CUSTOMER SUPPLIED	3	0.00	3570.00	10710.00
2	DN#7533 <i>W.O. #8041</i>	SR-24CF2-0-0-0 DN DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL	1	0.00	1960.00	1960.00
					GRAND TOTAL	<i>12670.00</i>

*DNE99-99C*  
*Redo Spec. No R703*  
*Temp range 1400-2400C*  
*D/100 lens at 15 INCHES*  
*Ø 0.2. restricted aperture*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF  
EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. 006005  
CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS TAX CODE  
CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 11-17-00 PROMISE DATE (MM-DD-YY) 11-17-00  
OUR ORDER NO. 75719 ORDER DATE (MM-DD-YY) 11-06-00  
YOUR ORDER NO. 78146  
TERMS 0.00/0/30  
F.O.B. ORIGIN  
CODE 1103 (100.00)  
VIA UPS  
SPECIAL SHIPPING INSTRUCTIONS

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
2	DN#7533 (CONTINUED)	1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C  DN_DNE31-13C  JOB 20515-70				
<b>GRAND TOTAL</b>						<b>USD12,670.00</b>

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO \_\_\_\_\_ CUSTOMER NO. 100983

LUCENT TECHNOLOGIES  
ACCOUNTS PAYABLE  
65 DARLING DRIVE  
AVON, CT 06001

REQUEST DATE (MM-DD-YY) 09-07-01 PROMISE DATE (MM-DD-YY) 09-07-01

OUR ORDER NO. 78315 ORDER DATE (MM-DD-YY) 08-23-01

YOUR ORDER NO. 68048

TERMS 0.00/0/30

F.O.B. ORIGIN

SHIPPING ADDRESS \_\_\_\_\_ TAX CODE \_\_\_\_\_

LUCENT TECHNOLOGIES  
65 DARLING DRIVE  
ATTN: MARK DANFORTH  
AVON, CT 06001

CODE 1103 (100.00)

VIA RED COLL

SPECIAL SHIPPING INSTRUCTIONS  
ACCT NO. 102680

*DA/E99-99C*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#10733 <i>W.O.#10189</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C  DN_DNE31-13C	2	0.00	2180.00	4360.00
						<i>Redo Special No R703 Temp range = 1400-2400C D/100 at 15 inch dist 0.2 restrict aperture</i>
						<i>PTB 8/27</i>
<b>GRAND TOTAL</b>						<b>USD4,360.00</b>

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF  
EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. 006005  
CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS TAX CODE  
CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 09-25-00 PROMISE DATE (MM-DD-YY) 09-25-00  
OUR ORDER NO. 75142 ORDER DATE (MM-DD-YY) 09-05-00  
YOUR ORDER NO. 77193

TERMS  
0.00/0/30

F.O.B. ORIGIN

CODE 1103 (100.00)

VIA UPS

SPECIAL SHIPPING INSTRUCTIONS

*DNE99-99C*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#6720 <i>W.O. #7521</i>	DN_DNE31-20C IRCON INFRARAIL IRT SYSTEM-COMplete <i>Redo Special No R 703</i> <i>Temp range 1400-2400C</i> <i>D/100 Resolution at 15"</i> <i>Restricted aperture 0.2"</i> Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 1100-2000C  DN_DNE31-20C <i>Eng chg #500.</i>	1	0.00	1960.00	1960.00
					<i>RAB</i>	
					<i>9/16/00</i>	
					<b>GRAND TOTAL</b>	<b>USD1,960.00</b>

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



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Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. 006005  
CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS TAX CODE  
CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 09-29-00 PROMISE DATE (MM-DD-YY) 09-29-00

OUR ORDER NO. 75228 ORDER DATE (MM-DD-YY) 09-13-00

YOUR ORDER NO. 0077293

TERMS 0.00/0/30

F.O.B. ORIGIN

CODE 1103 (100.00)

VIA UPS

SPECIAL SHIPPING INSTRUCTIONS

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#6837 <i>W.O. # 7577</i>	DN_DNE31-20C IRCON INFRARAIL IRT SYSTEM-COMPLETE <i>Rec'd Spec No R703 Temp 1400 - 2400C D/100 at 15" &amp; Restruct aperture of 0.2"</i>	3	0.00	1960.00	5880.00
		Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 1100-2000C				
2	050312	DN_DNE31-20C INFRARAIL MANUAL	3	0.00	0.00	0.00
<b>GRAND TOTAL</b>						

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

REQUEST DATE (MM-DD-YY)  
02-25-00

PROMISE DATE (MM-DD-YY)  
02-25-00

OUR ORDER NO.  
72983

ORDER DATE (MM-DD-YY)  
01-28-00

YOUR ORDER NO.

73884

TERMS

0.00/0/30

F.O.B.

ORIGIN

CODE

1014 (100.00)

VIA

RED COLL

SPECIAL SHIPPING INSTRUCTIONS

ACCT # 032238

SOLD TO

CUSTOMER NO.

006005

CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS

TAX CODE

CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#4057 <i>W.O. #4175</i> <i>↑</i> <i>Replaces</i> <i>W.O. 4092</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C  DN_DNE31-13C	1	0.00	1896.00	1896.00
2	050312	INFRARAIL MANUAL	2	0.00	0.00	0.00
<b>GRAND TOTAL</b>						

*Redo No R703 - Temp range (400-2400C D/100 at 15" x 0.2" retort aperture RAB 2/9*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF  
EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



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Niles, IL 60714 USA

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Fax 847-647-0948

SOLD TO \_\_\_\_\_ CUSTOMER NO. 006005

CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS \_\_\_\_\_ TAX CODE \_\_\_\_\_

CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

REQUEST DATE (MM-DD-YY) 02-25-00 PROMISE DATE (MM-DD-YY) 02-25-00

OUR ORDER NO. 72983 ORDER DATE (MM-DD-YY) 01-28-00

YOUR ORDER NO. 73884

TERMS 0.00/0/30

F.O.B. ORIGIN

CODE 1014 (100.00)

VIA RED COLL

SPECIAL SHIPPING INSTRUCTIONS \_\_\_\_\_

*DNE99-99C*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#3887 <i>W.O. #4092</i> <i>REPLACED</i> <i>by</i> <i>W.O. 4175</i> <i>(REDONE)</i> <i>2-9-00</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C  DN_DNE31-13C	1	0.00	1896.00	1896.00
2	050312	INFRARAIL MANUAL	2	0.00	0.00	0.00
<i>any chgs</i> <del>_____</del> <i># 50</i>						
<b>GRAND TOTAL</b>						

*Redo Special No R 703 -*  
*Temp range 1400-2400C*  
*D/100 at 15" Rest. Aperture*  
*0.2"*  
*PAB 1/21*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF  
EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

REQUEST DATE (MM-DD-YY)  
05-16-00

PROMISE DATE (MM-DD-YY)  
05-16-00

OUR ORDER NO.  
73949

ORDER DATE (MM-DD-YY)  
05-01-00

YOUR ORDER NO.

74994

TERMS

0.00/0/30

F.O.B.

ORIGIN

CODE

1103 (100.00)

VIA

UPS

SPECIAL SHIPPING INSTRUCTIONS

SOLD TO

CUSTOMER NO.

006005

CENTORR/VACUUM INDUS. INC  
55 NORTHEASTERN BLVD.  
ATTN: MARY PETERS  
NASHUA, NH 03062-3126

SHIPPING ADDRESS

TAX CODE

CENTORR/VACUUM INDUSTRIES  
55 NORTHEASTERN BLVD  
NASHUA, NH 03062-3126

*DNE99-99c*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#5220 <i>W.O. #6475</i>	DN_DNE31-20C IRCON INFRARAIL IRT SYSTEM-COMPLETE  Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 1100-2000C  DN_DNE31-20C	1	0.00	1896.00	1896.00
2	MOD-CHARGES	MODIFICATION OF PRODUCT	1	0.00	<del>0.00</del> <i>\$100 include</i>	0.00
<b>GRAND TOTAL</b>						

*Redo Special No R703  
Temp 1400-2400C, D/100  
at 15" focus + restrict  
aperture = 0.2"  
Rd 1/5/1*

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF  
EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

BOM Number : DN#1446 - IRCON INFRARAIL IRT

SO-LI: 70778\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2	C11201/01	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-96		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3	T-C11209-1	SELECT DET. ASSY. (E-SERI	1.0000	EA		B	3770	08-21-96		
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2	990100004	EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-96		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-96		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2	C11201/02	SEE EXTENDED DESCRIPTION	3.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	1.0000	EA		B	3709	05-17-96		
2	C11201/03	SEE EXTENDED DESCRIPTION	5.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2	D11198/01	SEE EXTENDED DESCRIPTION	3.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				

R703 ?  
AD. 2-9-00

BOM Number : DN#1446 - IRCON INFRARAIL IRT

SO-LI: 70778\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	NL13354	NEW 'N'# FOR L13354	1.0000	EA		M P				
2	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
3	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-96		
3	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-96		
3	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-96		
3	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-96		
3	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-96		
3	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-96		
3	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-96		
3	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-96		
3	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-96		
3	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-96		
3	200204130	SCREW #2-56 X 1/8 BH SLOT	1.0000	EA		B	3770	08-21-96		
3	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-96		
3	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-96		
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	8.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	8.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	5.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		

BOM Number : DN#1446 - IRCON INFRARAIL IRT

SO-LI: 70778\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	4.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102001011	RES. 2.00K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	6.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	5.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	8.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	1.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		

BOM Number : DN#1446 - IRCON INFRARAIL IRT

SO-LI: 70778\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-96		
4	551122	CHOKO 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-96		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-96		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-96		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-96		
4	521962	CAP. NPO 10pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-96		
4	LDN100/03	SEE EXTENDED DESCRIPTION	7.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-96		
4	LDN100/04	SEE EXTENDED DESCRIPTION	6.0000	EA		M P				
4	526002	CAP. SMC 330PF NPO 50V 5%	1.0000	EA		B	3767	08-07-96		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-96		
4	LDN100/05	SEE EXTENDED DESCRIPTION	3.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-96		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-96		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-96		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-96		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-97		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	4.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-96		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 10% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-96		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-96		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-96		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-96		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-96		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-96		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-96		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-96		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-96		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-96		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-96		

BOM Number : DN#1446 - IRCON INFRARAIL IRT

SO-LI: 70778\*1

.....Level.....	..Part Number..	.....Description.....	.Quantity.	.UM.	Alt.	MB X	.ECO No.	ECO Date	StartUse	End Use.
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-96		
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	1.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	1.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-96		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-96		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-96		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-96		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-96		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-96		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	6.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

BOM Number : DN#4057 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	<del>560052</del> → 560052 -OK	CABLE PVC 2 COND 1100/200	38.0000	FT		B				
1	C11201	SENSING HEAD FINAL ASSEMB	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2	C11201-01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-96		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3	T-C11209-1	SELECT DET. ASSY. (E-SERI	1.0000	EA		B	3770	08-21-96		
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2	990100004	EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2	447382	FIELD STOP, .437 DIA	1.0000	EA		B	3709	05-17-96		
2	610402	LENS PLANO CONVEX 30" F/L	1.0000	EA		B	3709	05-17-96		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-96		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	EX4462 → D11198	PVC- (INT/EXT-E/F SERIES) (	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	U-D11198-c -OK	12 FEET OF CABLE	1.0000	EA		M P				
2	560052 -OK	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-E3113C	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	101474011	RES. 1.47M OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101213011	RES. 121K OHM MF 1/4W 1%	1.0000	EA		B				

U-M1-R703

THIS IS WRONG  
MISSING ASSEMBLIES

STANDARD  
(NO CHANGES)

BOM Number : DN#4057 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
2	101332011	RES. 13.3K OHM MF 1/4W 1%	1.0000	EA		B				
2	105492011	RES. 54.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	109531011	RES. 9.53K OHM MF 1/4W 1%	1.0000	EA		B				
2	108452011	RES. 84.5K OHM MF 1/4W 1%	1.0000	EA		B				
2	106341011	RES. 6.34K OHM MF 1/4W 1%	1.0000	EA		B				
2	101303011	RES. 130K OHM MF 1/4W 1%	1.0000	EA		B				
2	104221011	RES. 4.22K OHM MF 1/4W 1%	1.0000	EA		B				
2	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B				
2	102671011	RES. 2.67K OHM MF 1/4W 1%	1.0000	EA		B				
2	103323011	RES. 332K OHM MF 1/4W 1%	1.0000	EA		B				
2	101651011	RES. 1.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	105363011	RES. 536K OHM MF 1/4W 1%	1.0000	EA		B				
2	101001011	RES. 1.00K OHM MF 1/4W 1%	1.0000	EA		B				
2	109313011	RES. 931K OHM MF 1/4W 1%	1.0000	EA		B				
2	106040011	RES. 604 OHM MF 1/4W 1%	1.0000	EA		B				
2	107680011	RES. 768 OHM MF 1/4W 1%	1.0000	EA		B				
2	101584011	RES. 1.58M OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		

BOM Number : DN#4057 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKER 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-96		
4	551122	CHOKER 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-96		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-96		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-96		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-96		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-96		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-96		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				

BOM Number : DN#4057 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-96		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-96		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-96		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-96		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-96		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-96		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-97		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONN	1.0000	EA		M P	3671	04-08-96		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-96		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-96		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-96		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-96		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-96		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-96		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-96		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-96		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-96		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-96		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-96		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-96		
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-96		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-96		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-96		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-96		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-96		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-96		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

W.O. 4092

BOM Number : DN#3887 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-96		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3	T-C11209-1	SELECT DET. ASSY. (E-SERI	1.0000	EA		B	3770	08-21-96		
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2	990100004	EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-96		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-96		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-96		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	<del>U-D11198-C</del>	<del>12 FEET OF CABLE</del>	<del>1.0000</del>	<del>EA</del>		<del>M P</del>				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				

GK

610422

38FT

R703

WRONG  
DO NOT USE  
See W.O. 4175  
(CORRECTED)  
AD. 2-9-00

BOM Number : DN#3887 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	NL13354	NEW 'N'# FOR L13354	1.0000	EA		M P				
2	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
3	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-96		
3	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-96		
3	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-96		
3	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-96		
3	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-96		
3	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-96		
3	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-96		
3	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-96		
3	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-96		
3	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-96		
3	200204130	SCREW #2-56 X 1/8 BH SLOT	1.0000	EA		B	3770	08-21-96		
3	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-96		
3	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-96		
3	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		

MISSING IN STD

I ADDED

BOM Number : DN#3887 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		

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Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-96		
4	551122	CHOKER 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-96		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-96		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-96		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-96		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-96		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-96		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-96		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-96		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-96		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-96		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-96		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-96		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-97		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-96		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-96		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-96		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-96		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-96		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-96		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-96		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-96		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-96		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-96		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-96		

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SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-96		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-96		
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-96		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-96		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-96		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-96		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-96		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-96		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

W.O. #10189

Number :DN#10733 - IRCON INFRARAIL IRT SO-LI: 78315\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	560052	CABLE PVC 2 COND 1100/200	38.0000	FT		B				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-1996		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-1996		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-1996		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-1996		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-1996		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-1996		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-1996		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-1996		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-1996		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-1996		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-1996		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-1996		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-1996		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-1996		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-1996		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-1996		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-1996		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-1996		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-1996		
2	990100002	EPOXY HARDMAN #4005 GEN P	1.0000	EA		B	3709	05-17-1996		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-1996		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-1996		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-1996		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-1996		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-1996		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-1996		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-1996		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-1996		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-1996		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-1996		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-1996		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-1996		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-1996		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-1996		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-1996		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-1996		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-1996		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-1996		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-1997		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-1997		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-1997		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-1997		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-1997		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-1997		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-1997		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-1997		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-1997		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				

R703

Number :DN#10733 - IRCON INFRARAIL IRT SO-LI: 78315\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-1996		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-1996		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-1999		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-1999		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-1996		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-1996		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-1996		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-1996		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-1996		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-1996		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-1996		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-1996		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-1996		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-1996		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-1996		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-1996		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-1996		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-1996		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-1996		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-1996		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-1996		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-1996		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-1996		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-1996		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-1996		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-1996		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-1996		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-1996		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-1996		

Number :DN#10733 - IRCON INFRARAIL IRT SO-LI: 78315\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR	1.0000	EA		B	3767	08-07-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-1996		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-1996		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-1996		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-1996		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-1996		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-1996		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-1996		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-1996		
4	551122	CHOKER 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-1996		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-1996		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-1996		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-1996		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-1996		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-1996		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-1996		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-1996		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-1996		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-1996		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-1996		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-1996		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-1996		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-1997		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-1996		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-1996		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-1996		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-1996		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-1996		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-1996		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-1996		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-1996		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-1996		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-1996		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-1996		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-1996		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-1996		

Number :DN#10733 - IRCON INFRARAIL IRT SO-LI: 78315\*1

.....Level.....	..Part Number..	.....Description.....	.Quantity.	.UM.	Alt.	MB X	.ECO No.	.ECO Date.	.Start Use	.End Use..
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-1996		
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-1996		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-1996		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-1996		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-1996		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-1996		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-1996		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-1996		

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. 101027  
OXY-GON INDUSTRIES, INC.  
P O BOX 40  
EPSOM, NH 03234

SHIPPING ADDRESS TAX CODE  
R  
OXY-GON INDUSTRIES, INC.  
42 OLD ROUTE 28  
EPSOM, NH 03234

REQUEST DATE (MM-DD-YY) 02-27-2002 PROMISE DATE (MM-DD-YY) 02-27-2002  
OUR ORDER NO. 79642 ORDER DATE (MM-DD-YY) 02-20-2002  
YOUR ORDER NO. 9455  
TERMS 0.00/0/30  
QUOTE #  
F.O.B. ORIGIN  
CODE 1103 (100.00)  
VIA UPS  
SPECIAL SHIPPING INSTRUCTIONS

*DNE99-99C*

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#12380 <i>W.O.#11273</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE <i>Redo Special No R 703</i> <i>Temp range 1400-2400C</i> Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C <i>D/100 at 15 inch restrict aperture 0.2"</i> DN_DNE31-13C <i>PTB 2/20</i> <i>Long Cfg</i>	1	0.00	2180.00	2180.00
<b>GRAND TOTAL</b>						<b>USD2,180.00</b>

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

## Section 1 — GENERAL INFORMATION

### 1.5 SPECIAL MODIFICATIONS

IRCON InfraRail Model DNE99-99C, Serial Nos. 001215 and 001216 are modified for a special temperature range of 1400 to 2400°C and a special optical resolution of D/100 with a 15 inch focal distance.

Special components are used in the Signal Processor Module, and the instrument has been factory calibrated for linear operation throughout the special temperature range.

The modified instrument may be used with all standard InfraRail options and accessories.

Details of this modification are retained in IRCON Engineering Files as InfraRail Special No. R703.

**! CAUTION !**

**ADD** →

~~IN THE~~ THIS INSTRUMENT IS SUPPLIED WITH A SPECIAL GROUNDING INTERCONNECTING CABLE. TO PREVENT DAMAGE TO THE ELECTRONIC CONTROL MODULE AND POWER SUPPLY, THE SENSOR MUST NOT BE MOUNTED ON A SURFACE ~~THAT~~ THAT IS AT EARTH GROUND POTENTIAL. IF THE MOUNTING SURFACE IS AT ~~THE~~ EARTH GROUND POTENTIAL, THE SENSOR MUST BE ISOLATED FROM IT. DONOT ~~USE~~ FOLLOW MOUNTING INSTRUCTIONS ON PAGE 2E-6 OF THIS MANUAL.

R 703  
S/O 80465

## Section 1 — GENERAL INFORMATION

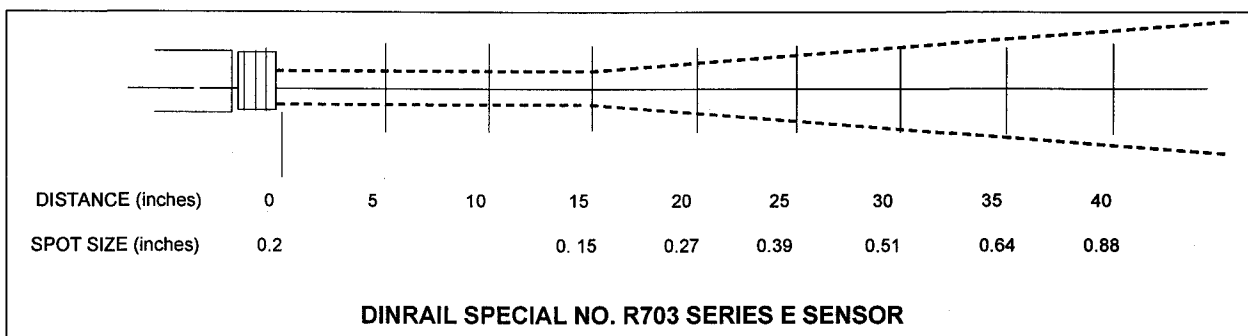
### 1.6 PRODUCT MODIFICATION

Ircon InfraRail Model DNE99-99C, is modified for a special temperature range of 1400 to 2400°C and a special spot size of 0.15 inch at a distance of 15 inches. This instrument has an optical resolution of D/100. In addition, the instrument is also equipped with a special grounded interconnecting cable.

Special components are used in the sensor, and the instrument has been factory calibrated for linear operation throughout the special temperature range.

Per customer request, the sensor is automatically grounded through the interconnecting cable. As such, no external grounding, as explained in section 2E, page 2E-6 of this manual, is required. However, due to this change, the sensor must never be mounted on any surface that is connected to earth ground. Doing so will cause damage to the electronic module.

The sensor's cone of vision can be no greater than 0.2 inch diameter at the lens. This is accomplished with a special limiting objective aperture that will project a 0.15 inch spot at a distance of 15 inches for a D/100 resolution. See revised Figure 2E.4 below for spot size vs. distance relationship. This diagram replaces the standard one shown on section 2E page 2E-3 of this manual.



This modified instrument may be used with all standard InfraRail options and accessories.

Details of this modification are retained in Ircon Engineering Files as InfraRail Special No. R703.

**NOTE:** Ircon Inc., is the sole owner in all respects of any product or software modification or design herein specified.

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO CUSTOMER NO. **101027**  
**OXY-GON INDUSTRIES, INC.**  
P O BOX 40  
EPSOM, NH 03234

SHIPPING ADDRESS TAX CODE **NO TAX**  
**OXY-GON INDUSTRIES, INC.**  
42 OLD ROUTE 28  
EPSOM, NH 03234

REQUEST DATE (MM-DD-YY) **06-26-02** PROMISE DATE (MM-DD-YY) **06-26-02**  
OUR ORDER NO. **80465** ORDER DATE (MM-DD-YY) **06-12-02**  
YOUR ORDER NO. **9721**  
TERMS **0.00/0/30**  
QUOTE #  
F.O.B. **ORIGIN**  
CODE **1103 (100.00)**  
VIA **UPS**  
SPECIAL SHIPPING INSTRUCTIONS

*DNE9-99C*

LI	PART NO.	DESCRIPTION	QTY	DSCNT %	UNIT PRICE	AMOUNT
1	DN#13524 <i>W.O. 11946</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMLETE Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 18.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C DN_DNE31-13C	1	0.00	2202.50	2202.50
2	551202	POWER SUPPLY 120AC/24DC 1 RAIL MOUNT. MUST HAVE CE	1	0.00	125.00	125.00
					<i>any chg \$400.-</i>	
THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE						GRAND TOTAL <b>USD2,327.50</b>

SHIP TO: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

W.O #11946

Number :DN#13524 - IRCON INFRARAIL IRT SO-LI: 80465\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
	DNODNE	DN PRICES	1.0000	EA		M P				
1	560052	CABLE PVC 2 COND 1100/200	18.0000	FT		B				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-1996		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-1996		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-1996		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-1996		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-1996		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-1996		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-1996		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-1996		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-1996		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-1996		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-1996		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-1996		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-1996		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-1996		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-1996		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-1996		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-1996		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-1996		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-1996		
2	990100002	EPOXY HARDMAN #4005 GEN P	1.0000	EA		B	3709	05-17-1996		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-1996		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-1996		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-1996		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-1996		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-1996		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-1996		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-1996		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-1996		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-1996		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-1996		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-1996		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-1996		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-1996		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-1996		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-1996		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-1996		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-1996		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-1996		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-1997		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-1997		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-1997		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-1997		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-1997		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-1997		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-1997		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-1997		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-1997		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				

R703 (DNE31-13C)

Number :DN#13524 - IRCON INFRARAIL IRT SO-LI: 80465\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-1996		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-1996		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-1999		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-1999		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-1996		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-1996		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-1996		
4	532952	OP-AMP ULTRA LOW BIAS	2.0000	EA		B	3769	08-05-1996		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-1996		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-1996		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-1996		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-1996		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-1996		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-1996		
4	551122	CHOKER 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-1996		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-1996		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-1996		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-1996		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-1996		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-1996		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-1996		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-1996		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-1996		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-1996		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-1996		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-1996		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	4785	03-05-2002		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-1996		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-1996		

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Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR	1.0000	EA		B	3767	08-07-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	3.0000	EA		B	3767	08-07-1996		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-1996		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-1996		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-1996		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-1996		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-1996		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-1996		
4	551122	CHOKE 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-1996		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-1996		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-1996		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-1996		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-1996		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-1996		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-1996		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-1996		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-1996		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-1996		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-1996		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-1996		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-1996		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-1997		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-1996		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-1996		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-1996		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-1996		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-1996		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-1996		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-1996		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-1996		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-1996		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-1996		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-1996		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-1996		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-1996		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-1996		

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Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-1996		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-1996		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-1996		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-1996		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-1996		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-1996		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-1996		

W.O. #10574

Number :DN#11304 - IRCON INFRARAIL IRT SO-LI: 78822\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-1996		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD,.2	1.0000	EA		B	3709	05-17-1996		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-1996		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-1996		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-1996		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-1996		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-1996		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-1996		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-1996		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-1996		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-1996		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-1996		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-1996		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-1996		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-1996		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-1996		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-1996		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-1996		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-1996		
2	990100002	EPOXY HARDMAN #4005 GEN P	1.0000	EA		B	3709	05-17-1996		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-1996		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-1996		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-1996		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-1996		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-1996		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-1996		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-1996		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-1996		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-1996		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-1996		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-1996		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-1996		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-1996		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-1996		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-1996		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-1996		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-1996		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-1996		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B	3913	04-02-1997		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-1997		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-1997		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-1997		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-1997		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-1997		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-1997		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-1997		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-1997		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				

R703

Number :DN#11304 - IRCON INFRARAIL IRT SO-LI: 78822\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-1996		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-1996		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-1999		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-1999		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-1996		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-1996		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-1996		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-1996		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-1996		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-1996		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-1996		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-1996		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-1996		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-1996		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-1996		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-1996		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-1996		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-1996		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-1996		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-1996		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-1996		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-1996		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-1996		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-1996		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-1996		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-1996		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-1996		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-1996		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-1996		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				

Number :DN#11304 - IRCON INFRARAIL IRT SO-LI: 78822\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR	1.0000	EA	B	3767		08-07-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA	B	3767		08-07-1996		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA	B	3767		08-07-1996		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA	B	3767		08-07-1996		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA	B	3767		08-07-1996		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA	B	3767		08-07-1996		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA	B	3767		08-07-1996		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA	B	3767		08-07-1996		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA	B	3767		08-07-1996		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA	B	3767		08-07-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA	B	3767		08-07-1996		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA	B	3767		08-07-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA	B	3767		08-07-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA	B	3767		08-07-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA	B	3767		08-07-1996		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA	B	3767		08-07-1996		
4	551122	CHOKER 9250-122 1.2 UH, .1	1.0000	EA	B	3767		08-07-1996		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA	B	3767		08-07-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA	B	3767		08-07-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA	B	3767		08-07-1996		
4	521932	CAP. 100 PF COG 200V	1.0000	EA	B	3767		08-07-1996		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA	B	3767		08-07-1996		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA	B	3767		08-07-1996		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA	B	3767		08-07-1996		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA	B	3767		08-07-1996		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA	B	3767		08-07-1996		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA	B	3767		08-07-1996		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA	B	3767		08-07-1996		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA	B	3767		08-07-1996		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA	M P	3671		04-08-1996		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA	M P					
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA	B	3721		08-01-1996		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA	B	3721		08-01-1996		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA	B	3671		04-08-1996		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA	M P	3671		04-08-1996		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA	M P	4030		10-08-1997		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA	B					
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN	B					
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN	B					
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN	B					
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA	B					
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA	B					
2	C11189	RESPONSE TIME POT/ CONN	1.0000	EA	M P	3671		04-08-1996		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA	M P					
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA	B					
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN	B					
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN	B					
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN	B					
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA	B					
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA	B					
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA	M P	3671		04-08-1996		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA	M P	3767		08-07-1996		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA	B	3767		08-07-1996		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN	B	3767		08-07-1996		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN	B	3767		08-07-1996		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN	B	3767		08-07-1996		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA	B	3767		08-07-1996		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA	B	3767		08-07-1996		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA	B	3767		08-07-1996		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA	B	3671		04-08-1996		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA	B	3671		04-08-1996		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA	B	3671		04-08-1996		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA	M P	3671		04-08-1996		

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.....Level.....	..Part Number..	.....Description.....	.Quantity.	.UM.	Alt.	MB X	.ECO No.	.ECO Date.	.Start Use	.End Use..
				UM						
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-1996		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-1996		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-1996		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-1996		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-1996		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-1996		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-1996		

W.O.#7577

BOM Number : DN#6837 - IRCON INFRARAIL IRT

SO-LI: 75228\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	560052	CABLE PVC 2 COND 1100/200	38.0000	FT		B				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-96		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-96		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-96		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-96		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-96		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-96		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-96		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-96		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-96		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-96		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-96		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-96		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-96		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-96		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2	990100004	EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-96		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-96		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-96		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				

R703

START MODEL = DNE 31-20C

BOM Number : DN#6837 - IRCON INFRARAIL IRT

SO-LI: 75228\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		

BOM Number : DN#6837 - IRCON INFRARAIL IRT

SO-LI: 75228\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKO 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		

BOM Number : DN#6837 - IRCON INFRARAIL IRT

SO-LI: 75228\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-96		
4	551122	CHOKE 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-96		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-96		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-96		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-96		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-96		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-96		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-96		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-96		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-96		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-96		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-96		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-96		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-97		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-96		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-96		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-96		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-96		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-96		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-96		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-96		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-96		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-96		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-96		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-96		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-96		

BOM Number : DN#6837 - IRCON INFRARAIL IRT

SO-LI: 75228\*1

.....Level.....	..Part Number..	.....Description.....	.Quantity.	.UM.	Alt.	MB X	.ECO No.	ECO Date	StartUse	End Use.
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-96		
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-96		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-96		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-96		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-96		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-96		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-96		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

W.O.# 7521

BOM Number : DN#6720 - IRCON INFRARAIL IRT

SO-LI: 75142\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
1	DNODNE	DN PRICES	1.0000	EA		M P				
1	560052	CABLE PVC 2 COND 1100/200	38.0000	FT		B				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-96		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-96		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-96		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-96		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-96		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-96		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-96		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-96		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-96		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-96		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-96		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-96		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-96		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-96		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2	990100004	EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-96		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-96		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-96		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				

R703

START MODEL = DNE31-20C

BOM Number : DN#6720 - IRCON INFRARAIL IRT

SO-LI: 75142\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		

BOM Number : DN#6720 - IRCON INFRARAIL IRT

SO-LI: 75142\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKER 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		

BOM Number : DN#6720 - IRCON INFRARAIL IRT

SO-LI: 75142\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767		08-07-96	
4	551122	CHOKO 9250-122 1.2 UH, .1	1.0000	EA		B	3767		08-07-96	
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767		08-07-96	
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767		08-07-96	
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767		08-07-96	
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767		08-07-96	
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767		08-07-96	
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767		08-07-96	
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767		08-07-96	
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767		08-07-96	
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767		08-07-96	
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767		08-07-96	
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767		08-07-96	
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767		08-07-96	
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671		04-08-96	
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721		08-01-96	
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721		08-01-96	
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671		04-08-96	
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671		04-08-96	
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030		10-08-97	
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONN	1.0000	EA		M P	3671		04-08-96	
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671		04-08-96	
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767		08-07-96	
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767		08-07-96	
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767		08-07-96	
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767		08-07-96	
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767		08-07-96	
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767		08-07-96	
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767		08-07-96	
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767		08-07-96	
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671		04-08-96	
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671		04-08-96	
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671		04-08-96	

BOM Number : DN#6720 - IRCON INFRARAIL IRT

SO-LI: 75142\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-96		
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-96		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-96		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-96		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-96		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-96		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-96		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		



IRCON, INC T 847-967-5151  
 7300 North Natchez Ave T 800-323-7660  
 Niles, Illinois 60714 USA F 847-647-0948

# Acknowledgment

ORDER DATE: 27 OCT 2005

REV: DATE:

Customer No. 006005  
 SOLD TO

**SHIP TO**

CENTORR/VACUUM INDUSTRIES  
 55 NORTHEASTERN BLVD  
 NASHUA, NH 03062-3126

CENTORR/VACUUM INDUS. INC  
 55 NORTHEASTERN BLVD.  
 ATTN: MARY PETERS  
 NASHUA, NH 03062-3126

**SPECIAL SHIPPING INSTRUCTIONS**

OUR ORDER No.		YOUR PO No.		F.O.B.			TAX	
89530		105594		ORIGIN			Resale	
SHIP VIA			TERMS		DATE REQUESTED		SALES REPRESENTATIVE	
UPS			0.00/0/30		11-23-05		1103 (100.00)	
LI	PART NO.	PRODUCT/DESCRIPTION	QTY	UNIT PRICE	DISC	NET PRICE	EXTENSION	
1	DN#27326 <i>W.O. # 20009</i>	<del>DN_DNE31-13C</del> <i>DN E99-99c</i> IRCON INFRARAIL IRT SYSTEM-COMPLETE Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 38.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - <del>800-1300c</del> <i>Redo spec No R 703</i> <i>Disp range 1400-2400c</i> <i>D/100 at 15 INCH and</i> <i>restricted aperture 0.2 INCH</i>	1	2395.00	0.0	2395.00	2395.00	
2	050312	INFRARAIL MANUAL ON CD	2	0.00	0.0	0.00	0.00	
THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE						<b>GRAND TOTAL</b>		USD2,395.00

SHIP TO: IRCON, INC.  
 7300 N. NATCHEZ AVE.  
 NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE



IRCON, INC.  
7300 North Natchez Avenue  
Niles, Illinois 60714 USA

Telephone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

ISO 9001/QS 9000 TE  
Quality Systems Certified

### Modified Standard Product Data Form

*A modified standard product is a product that is based on a standard product found in the most recent price list. The modifications maybe items such as; temperature ranges, output types, resolution, response time and optical issues. A modified standard product form is to be completed and submitted to Steve Schumm and Gene Kalley for review and approval based on the modification (which we have done before). If the modification has not been done before, the approval will require the entire senior management team's approval BEFORE QUOTING. A modified standard product if approved; this product will become a price listed standard product. We can then pay commission as outlined in our most recent contract.*

- Standard Product is a Model Number: PNEB1-13C
  - Standard Product List Price: \$ 1945
  - The product change requested would be: Reduce R703  
1400 + 2400s, 0/100 @ 15"  
restrict aperture at 0.2M *Sales will attach specifics to this form.*
  - The market is willing to pay \$ 2795 for this product (total including standard price).
  - What is engineering's expected time investment and cost: 1 HOUR Man Days  
\$ 100.00
  - What is production's expected purchasing and production time requirement: \_\_\_\_\_ Days
  - This new product has potential in the following application and estimated potential per year would be \_\_\_\_\_ per year.
- 
- This product will be  not be \_\_\_\_\_ quoted and produced as previously outlined.
  - Agreed on this date of \_\_\_\_\_ By production/purchasing \_\_\_\_\_  
By engineering A. DONADO 11/4/05
  - Sales can now quote this project for \$ \_\_\_\_\_ per unit.  
W.O. # 20009
- \_\_\_\_\_ lead time.

\_\_\_\_\_ Add to standard product list in literature (Maxine)  
\_\_\_\_\_ Add to price list (Vern)  
cc/ Greg P, Paul V, Regional Sales Staff Globally

W.O. # 20009

Number :DN#27326 - IRCON INFRARAIL IRT SO-LI: 89530\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
1	DN0DNE	DN PRICES	1.0000	EA		M P				
1	560052	CABLE PVC 2 COND 1100/200	38.0000	FT		B				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-1996		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-1996		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-1996		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-1996		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-1996		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-1996		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-1996		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-1996		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-1996		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-1996		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-1996		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-1996		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-1996		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-1996		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-1996		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-1996		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-1996		
4	320811000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-1996		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-1996		
2	990100002	EPOXY HARDMAN #4005 GEN P	1.0000	EA		B	3709	05-17-1996		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-1996		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-1996		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-1996		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-1996		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-1996		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-1996		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-1996		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-1996		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-1996		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-1996		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-1996		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-1996		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-1996		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-1996		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-1996		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-1996		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-1996		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-1996		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-1997		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-1997		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-1997		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-1997		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-1997		
2	321611400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-1997		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-1997		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-1997		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-1997		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				

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Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
				UM						
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-1996		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-1996		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-1999		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-1999		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-1996		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-1996		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-1996		
4	532952	OP-AMP ULTRA LOW BIAS	2.0000	EA		B	3769	08-05-1996		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	4842	07-31-2002		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-1996		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	4906	05-19-2003		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-1996		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-1996		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-1996		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-1996		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-1996		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-1996		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-1996		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-1996		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-1996		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-1996		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-1996		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-1996		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-1996		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-1996		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-1996		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-1996		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	4785	03-05-2002		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-1996		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-1996		

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Level	Part Number	Description	Quantity	UM	Alt	MB	X	ECO No.	ECO Date	Start Use	End Use
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	532982	OP-AMP AD548CQ LOW PWR	1.0000	EA		B		3767	08-07-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	3.0000	EA		B		3767	08-07-1996		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B		3767	08-07-1996		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B		3767	08-07-1996		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B		3767	08-07-1996		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	6.0000	EA		B		3767	08-07-1996		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B		3767	08-07-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B		3767	08-07-1996		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B		3767	08-07-1996		
4	551122	CHOKO 9250-122 1.2 UH, .1	1.0000	EA		B		3767	08-07-1996		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B		3767	08-07-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B		3767	08-07-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B		3767	08-07-1996		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B		3767	08-07-1996		
4	521962	CAP. 10PF NPO 200V .2LS	2.0000	EA		B		3767	08-07-1996		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B		3767	08-07-1996		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B		3767	08-07-1996		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B		3767	08-07-1996		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B		3767	08-07-1996		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B		3767	08-07-1996		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B		3767	08-07-1996		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B		3767	08-07-1996		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M	P	3671	04-08-1996		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M	P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B		3721	08-01-1996		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B		3721	08-01-1996		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B		4909	06-11-2003		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M	P	3671	04-08-1996		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M	P	4030	10-08-1997		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B					
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B					
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B					
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B					
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B					
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B					
2	C11189	RESPONSE TIME POT/ CONN	1.0000	EA		M	P	3671	04-08-1996		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M	P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B					
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B					
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B					
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B					
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B					
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B					
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M	P	3671	04-08-1996		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M	P	3767	08-07-1996		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B		3767	08-07-1996		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B		3767	08-07-1996		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B		3767	08-07-1996		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B		3767	08-07-1996		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B		3767	08-07-1996		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B		3767	08-07-1996		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B		3767	08-07-1996		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B		3671	04-08-1996		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B		3671	04-08-1996		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B		3671	04-08-1996		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M	P	3671	04-08-1996		

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Level	Part Number	Description	Quantity	UM	Alt	MB	X	ECO No.	ECO Date	Start Use	End Use
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA							
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA							
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA							
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B		3671	04-08-1996		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B		3671	04-08-1996		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B		3671	04-08-1996		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B		3671	04-08-1996		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M	P	3671	04-08-1996		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B		3694	04-17-1996		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B		3671	04-08-1996		



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Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use
1	WAS	DNODNE								
1		DN PRICES	1.0000	EA		M P				
1		560052 CABLE PVC 2 COND 1100/200	38.0000	FT		B				
1	C11201	C11201-R703 SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2		451322 FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-96		
2		C11201/01 SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2		990300005 RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-96		
2		431442 DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-96		
2		C11209 SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-96		
3		L13354 SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4		431432 DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-96		
4		640642 FILTER, BANDPASS	1.0000	EA		B	3770	08-21-96		
4		590672 DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-96		
4		560372 CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-96		
4		312430100 WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-96		
4		430292 CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-96		
4		575892 CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-96		
4		490042 SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-96		
4		630092 FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-96		
4		490032 SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-96		
4		200204130 SCREW #2-56 X 1/8 BH SLOT	1.0000	EA		B	3770	08-21-96		
4		990100016 EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-96		
4		321400X0 TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-96		
4		320811000 BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2		447352 SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-96		
2		610432 EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-96		
2		990100004 EPOXY HB FULLER FE 7004	1.0000	EA		B	3709	05-17-96		
2		447372 FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-96		
2		447472 FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-96		
2		610422 LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-96		
2		431752 O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-96		
2		447362 LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-96		
2		200412440 SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-96		
2		220403200 WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-96		
2		454152 SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-96		
2		433372 O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-96		
2		220602200 WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-96		
2		200606040 SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-96		
2		C11201/02 SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2		443502 RETAINING NUT	1.0000	EA		B	3709	05-17-96		
2		477142 LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-96		
2		474772 LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-96		
2		T-C11201-1 DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-96		
2		C11201/03 SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2		999900013 CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-96		
2		990100028 SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-96		
2		999900014 STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-96		
1	WAS D11198	EX-4462 SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2		560052 CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-97		
2		D11198/01 SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2		D11198/02 SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2		D11198/03 SEE EXTENDED DESCRIPTION	8.0000	EA		M				

BOM Number : DN#4057 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use.
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-97		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-97		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-97		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-97		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-97		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-97		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-97		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-97		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-96		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-96		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-99		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-99		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-96		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-96		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-96		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-96		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-96		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		

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SO-LI: 72983\*1

.....Level.....	..Part Number..	.....Description.....	.Quantity.	.UM.	Alt.	MB X	.ECO No.	ECO Date	StartUse	End Use.
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-96		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-96		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-96		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-96		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-96		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-96		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-96		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-96		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-96		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-96		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-96		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-96		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-96		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-96		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-96		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-96		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-96		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-96		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-96		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-96		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-96		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-96		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-96		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-96		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR BI	1.0000	EA		B	3767	08-07-96		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-96		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-96		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-96		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-96		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-96		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-96		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-96		

BOM Number : DN#4057 - IRCON INFRARAIL IRT

SO-LI: 72983\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	StartUse	End Use.
4	10000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-96		
4	551122	CHOKO 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-96		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-96		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-96		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-96		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-96		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-96		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-96		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-96		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-96		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-96		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-96		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-96		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-96		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-96		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-97		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-96		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-96		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-96		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-96		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-96		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-96		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-96		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-96		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-96		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-96		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-96		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-96		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-96		



W.O. #11273

Number :DN#12380 - IRCON INFRARAIL IRT SO-LI: 79642\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
	DN0DNE	DN PRICES	1.0000	EA		M P				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-1996		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD,.2	1.0000	EA		B	3709	05-17-1996		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-1996		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-1996		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-1996		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-1996		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-1996		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-1996		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-1996		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-1996		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-1996		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-1996		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-1996		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-1996		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-1996		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-1996		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-1996		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-1996		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-1996		
2	990100002	EPOXY HARDMAN #4005 GEN P	1.0000	EA		B	3709	05-17-1996		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-1996		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-1996		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-1996		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-1996		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-1996		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-1996		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-1996		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-1996		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-1996		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-1996		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-1996		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-1996		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-1996		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-1996		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-1996		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-1996		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-1996		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-1996		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-1997		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-1997		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-1997		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-1997		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-1997		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-1997		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-1997		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-1997		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-1997		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA		B				

R703

(START Model)  
DNE31-13C

Number :DN#12380 - IRCON INFRARAIL IRT SO-LI: 79642\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA		B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA		B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA		B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA		B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA		B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA		B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA		B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA		B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA		B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA		B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA		B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA		M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA		B	3671	04-08-1996		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA		M P	3671	04-08-1996		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA		M P	4202	01-14-1999		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA		M P	4202	01-14-1999		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3769	08-05-1996		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-1996		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA		B	3769	08-05-1996		
4	532952	OP-AMP OP80GP ULTRA LOW B	2.0000	EA		B	3769	08-05-1996		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA		B	3769	08-05-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA		B	3769	08-05-1996		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA		B	3769	08-05-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA		B	3769	08-05-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3769	08-05-1996		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA		B	3769	08-05-1996		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA		B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA		B	3769	08-05-1996		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA		B	3769	08-05-1996		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA		B	3769	08-05-1996		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA		B	3769	08-05-1996		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA		B	3769	08-05-1996		
4	551122	CHOKE 9250-122 1.2 UH, .1	2.0000	EA		B	3769	08-05-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA		B	3769	08-05-1996		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA		B	3769	08-05-1996		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA		B	3769	08-05-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA		B	3769	08-05-1996		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA		B	3769	08-05-1996		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA		B	3769	08-05-1996		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA		B	3769	08-05-1996		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA		B	3769	08-05-1996		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA		B	3769	08-05-1996		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA		B	3769	08-05-1996		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA		B	3769	08-05-1996		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3769	08-05-1996		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA		M P	3671	04-08-1996		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA		M P	3659	04-12-1996		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA		M P	3659	04-12-1996		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA		B	3767	08-07-1996		
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				

Number :DN#12380 - IRCON INFRARAIL IRT SO-LI: 79642\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	532982	OP-AMP AD548CQ LOW PWR	1.0000	EA		B	3767	08-07-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	2.0000	EA		B	3767	08-07-1996		
4	532992	OP-AMP OP490EY LOW VOLT Q	1.0000	EA		B	3767	08-07-1996		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B	3767	08-07-1996		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-1996		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B	3767	08-07-1996		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	4.0000	EA		B	3767	08-07-1996		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B	3767	08-07-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B	3767	08-07-1996		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B	3767	08-07-1996		
4	551122	CHOKE 9250-122 1.2 UH, .1	1.0000	EA		B	3767	08-07-1996		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B	3767	08-07-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B	3767	08-07-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B	3767	08-07-1996		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B	3767	08-07-1996		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B	3767	08-07-1996		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B	3767	08-07-1996		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B	3767	08-07-1996		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B	3767	08-07-1996		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B	3767	08-07-1996		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B	3767	08-07-1996		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M P	3671	04-08-1996		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B	3721	08-01-1996		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B	3721	08-01-1996		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B	3671	04-08-1996		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-1996		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M P	4030	10-08-1997		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B				
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B				
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B				
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B				
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M P	3671	04-08-1996		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B				
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B				
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B				
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B				
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B				
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B				
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M P	3671	04-08-1996		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M P	3767	08-07-1996		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B	3767	08-07-1996		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B	3767	08-07-1996		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B	3767	08-07-1996		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B	3767	08-07-1996		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B	3767	08-07-1996		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B	3767	08-07-1996		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B	3767	08-07-1996		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B	3671	04-08-1996		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B	3671	04-08-1996		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B	3671	04-08-1996		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P	3671	04-08-1996		

Number :DN#12380 - IRCON INFRARAIL IRT SO-LI: 79642\*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-1996		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-1996		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-1996		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-1996		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-1996		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-1996		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-1996		



IRCON, INC T 847-967-5151  
 7300 North Natchez Ave T 800-323-7660  
 Niles, Illinois 60714 USA F 847-647-0948

# Acknowledgment

ORDER DATE: 19 DEC 2006

REV: DATE:

Customer No. 101027  
**SOLD TO**

**SHIP TO**

OXY-GON INDUSTRIES, INC.  
 42 OLD ROUTE 28  
 EPSOM, NH 03234

OXY-GON INDUSTRIES, INC.  
 P O BOX 40  
 EPSOM, NH 03234

**SPECIAL SHIPPING INSTRUCTIONS**

OUR ORDER No.		YOUR PO No.		F.O.B.			TAX
92777		11944		ORIGIN			Resale
SHIP VIA		TERMS		DATE REQUESTED	SALES REPRESENTATIVE		
UPS		0.00/0/30		01-20-07	1103 (100.00)		
LI	PART NO.	PRODUCT/DESCRIPTION	QTY	UNIT PRICE	DISC	NET PRICE	EXTENSION
1	DN#32515 <i>W.O.# 23109</i>	<del>DN_DNE31-13C</del> IRCON INFRARAIL IRT SYSTEM-COMLETE Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 12ft 18.0000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C	1	2470.00	0.0	2470.00	2470.00
		<i>Redo Spec No R1703</i> <i>Temp range 1400 to 2400C</i> <i>D/100 Res at 15 INCHES</i> <i>Restrict Aperture 0.2 IN.</i>  <i>RTB</i> <i>12/20/06</i>					
THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE				<b>GRAND TOTAL</b>		USD2,470.00	

SHIP TO: IRCON, INC.  
 7300 N. NATCHEZ AVE.  
 NILES, IL 60714 USA

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE



IRCON, INC.  
7300 North Natchez Avenue  
Niles, Illinois 60714 USA

Telephone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

ISO 9001/QS 9000 IE  
Quality Systems Certified

### Modified Standard Product Data Form

*A modified standard product is a product that is based on a standard product found in the most recent price list. The modifications maybe items such as; temperature ranges, output types, resolution, response time and optical issues. A modified standard product form is to be completed and submitted to Steve Schumm and Gene Kalley for review and approval based on the modification (which we have done before). If the modification has not been done before, the approval will require the entire senior management team's approval BEFORE QUOTING. A modified standard product if approved; this product will become a price listed standard product. We can then pay commission as outlined in our most recent contract.*

- Standard Product is a Model Number: DNE31-13C
  - Standard Product List Price: \$1970
  - The product change requested would be: Relo R703, 1400-2400C  
D/100 @ 15 IN, Rel. Apert. 2" Sales will attach specifics to this form.
  - The market is willing to pay: 2470 for this product (total including standard price).
  - What is engineering's expected time investment and cost: 1 week Man Days  
\$100.00
  - What is production's expected purchasing and production time requirement:      Days
  - This new product has potential in the following application and estimated potential per year would be      per year.
- 
- This product will be  not be  quoted and produced as previously outlined.
  - Agreed on this date of      By production/purchasing       
By engineering A. DONADO 12/26/06  
W.O.# 23109
  - Sales can now quote this project for \$      per unit.  
     lead time.

     Add to standard product list in literature (Maxine)  
     Add to price list (Vern)  
cc/ Greg P, Paul V, Regional Sales Staff Globally

Number :DN#32515 - IRCON INFRARAIL IRT SO-LI: 92777\*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
	DN0DNE	DN PRICES	1.0000	EA		M P				
1	560052	CABLE PVC 2 COND 1100/200	18.0000	FT		B				
1	C11201-R703	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451322	FIELD STOP .022DIA	1.0000	EA		B	3709	05-17-1996		
2	C11201/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	990300005	RETAINING RING 7/16 OD, .2	1.0000	EA		B	3709	05-17-1996		
2	431442	DET. LOCATOR MOD2	1.0000	EA		B	3709	05-17-1996		
2	C11209	SH DETECTOR ASSEMBLY (E-S	1.0000	EA		M P	3709	05-17-1996		
3	L13354	SH DETECTOR ASSEMBLY E-SE	1.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B	3770	08-21-1996		
4	640642	FILTER, BANDPASS	1.0000	EA		B	3770	08-21-1996		
4	590672	DET. SI VACTEC 21D459	1.0000	EA		B	3770	08-21-1996		
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B	3770	08-21-1996		
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B	3770	08-21-1996		
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B	3770	08-21-1996		
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B	3770	08-21-1996		
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B	3770	08-21-1996		
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B	3770	08-21-1996		
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B	3770	08-21-1996		
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B	3770	08-21-1996		
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B	3770	08-21-1996		
4	3214G00X0	TUBING #14 PVC CLEAR	1.0000	IN		B	3770	08-21-1996		
4	3208I1000	BLACK HEAT SHRINK TUBING	1.0000	IN		B				
2	447352	SENSOR, E-HEAD	1.0000	EA		B	3709	05-17-1996		
2	610432	EYE LENS FOR A HEAD	1.0000	EA		B	3709	05-17-1996		
2	990100002	EPOXY HARDMAN #4005 GEN P	1.0000	EA		B	3709	05-17-1996		
2	447372	FIELD STOP, .312 DIA	1.0000	EA		B	3709	05-17-1996		
2	447472	FIELD STOP .190 DIA.	1.0000	EA		B	3709	05-17-1996		
2	610422	LENS PLANO CONVEX 15" F/L	1.0000	EA		B	3709	05-17-1996		
2	431752	O RING 13/16 X 1/16 TH 70	1.0000	EA		B	3709	05-17-1996		
2	447362	LENS RING E-HEAD SENSOR	1.0000	EA		B	3709	05-17-1996		
2	200412440	SCREW #4-40 X 3/8 FIL SLO	4.0000	EA		B	3709	05-17-1996		
2	220403200	WASHER #4 LOCK SPLIT RING	4.0000	EA		B	3709	05-17-1996		
2	454152	SCREW, ADJUSTMENT,	1.0000	EA		B	3709	05-17-1996		
2	433372	O RING 3/32 X 7/32 X 1/16	1.0000	EA		B	3709	05-17-1996		
2	220602200	WASHER #6 LOCK EXT TOOTH	1.0000	EA		B	3709	05-17-1996		
2	200606040	SCREW #6-32 X 3/16 PH SLO	1.0000	EA		B	3709	05-17-1996		
2	C11201/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	443502	RETAINING NUT	1.0000	EA		B	3709	05-17-1996		
2	477142	LABEL, SERIAL NUMBER, SEN	1.0000	EA		B	3709	05-17-1996		
2	474772	LABEL GROUND WARNING	1.0000	EA		B	3709	05-17-1996		
2	T-C11201-1	DETERMINE IF CABLE IS REQ	0.0000	EA		B	3709	05-17-1996		
2	C11201/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	999900013	CAP PLUG #SC-1-1/4	1.0000	EA		B	3709	05-17-1996		
2	990100028	SEALANT RTV SILICONE BLAC	1.0000	EA		B	3709	05-17-1996		
2	999900014	STEM BUMPER 3/8OD .275T	1.0000	EA		B	3709	05-17-1996		
1	EX-4462	SPECIAL E/F SERIES CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	1.0000	FT		B	3913	04-02-1997		
2	D11198/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		M				
2	575882	CONN. CIRC 10SL-3 BACKSHE	1.0000	EA		B	3913	04-02-1997		
2	3210G00X0	TUBING #10 PVC CLEAR	3.0000	IN		B	3913	04-02-1997		
2	3212G00X0	TUBING #12 PVC CLEAR	1.0000	IN		B	3913	04-02-1997		
2	575902	CONN. CIRC 10SL-3 STR PLU	1.0000	EA		B	3913	04-02-1997		
2	3216I1400	TUBING 1/4" SHRINKABLE BL	1.0000	IN		B	3913	04-02-1997		
2	990100027	ADHESIVE LOCTITE 272	1.0000	EA		B	3913	04-02-1997		
2	C-CABLE	DETERMINE CABLE LENGTH FR	1.0000	EA		M P	3913	04-02-1997		
2	477202	LABEL INFRARAIL (2.0" X 0	1.0000	EA		B	3913	04-02-1997		
1	U-D11198-C	12 FEET OF CABLE	1.0000	EA		M P				
2	560052	CABLE PVC 2 COND 1100/200	12.0000	FT		B				
1	U-M1-R703	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	105762011	RES. 57.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101583011	RES. 158K OHM MF 1/4W 1%	1.0000	EA		B				
2	101072011	RES. 10.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	104422011	RES. 44.2K OHM MF 1/4W 1%	1.0000	EA		B				
2	108871011	RES. 8.87K OHM MF 1/4W 1%	1.0000	EA		B				

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R703

(START MODEL DNE31-13C)

Number :DN#32515 - IRCON INFRARAIL IRT SO-LI: 92777\*1

Level	Part Number	Description	Quantity	UM	Alt	MB	X	ECO No.	ECO Date	Start Use	End Use
2	106192011	RES. 61.9K OHM MF 1/4W 1%	1.0000	EA			B				
2	106651011	RES. 6.65K OHM MF 1/4W 1%	1.0000	EA			B				
2	108662011	RES. 86.6K OHM MF 1/4W 1%	1.0000	EA			B				
2	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA			B				
2	101243011	RES. 124K OHM MF 1/4W 1%	1.0000	EA			B				
2	103571011	RES. 3.57K OHM MF 1/4W 1%	1.0000	EA			B				
2	101783011	RES. 178K OHM MF 1/4W 1%	1.0000	EA			B				
2	102491011	RES. 2.49K OHM MF 1/4W 1%	1.0000	EA			B				
2	102613011	RES. 261K OHM MF 1/4W 1%	1.0000	EA			B				
2	101741011	RES. 1.74K OHM MF 1/4W 1%	1.0000	EA			B				
2	103833011	RES. 383K OHM MF 1/4W 1%	1.0000	EA			B				
2	101151011	RES. 1.15K OHM MF 1/4W 1%	1.0000	EA			B				
2	101961011	RES. 1.96K OHM MF 1/4W 1%	1.0000	EA			B				
2	105903011	RES. 590K OHM MF 1/4W 1%	1.0000	EA			B				
1	D11191	INFRARAIL BOX ASSEMBLY	1.0000	EA			M P				
2	433332	ENCLOSURE, DIN BOX, MODIF	1.0000	EA			B	3671	04-08-1996		
2	C11187	POWER SUPPLY/ PEAK-PICKER	1.0000	EA			M P	3671	04-08-1996		
3	C20212	SCHEMATIC: POWER SUPPLY/	1.0000	EA			M P	4202	01-14-1999		
3	LDN200	PWR SUPPLY/ PP PCB ASSY	1.0000	EA			M P	4202	01-14-1999		
4	502505	PCB DIN RAIL POWER PEAK-P	1.0000	EA			B	3769	08-05-1996		
4	LDN200/01	SEE EXTENDED DESCRIPTION	0.0000	EA			M P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA			B	3769	08-05-1996		
4	LDN200/02	SEE EXTENDED DESCRIPTION	0.0000	EA			M P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	0.0000	EA			M P				
4	530882	DIODE 1N4002 GP RECTIFIER	1.0000	EA			B	3769	08-05-1996		
4	532952	OP-AMP ULTRA LOW BIAS	2.0000	EA			B	3769	08-05-1996		
4	532322	IC 4053B ANALOG MUX/DEMUX	1.0000	EA			B	4842	07-31-2002		
4	531862	OP-AMP LM346N PROGRAM QUA	1.0000	EA			B	3769	08-05-1996		
4	102493011	RES. 249K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	103321011	RES. 3.32K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	101820011	RES. 182 OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	104421011	RES. 4.42K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	106654011	RES. 6.65M OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	104021011	RES. 4.02K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	2.0000	EA			B	3769	08-05-1996		
4	103480011	RES. 348 OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	100000990	JUMPER DUMMY RESISTOR	5.0000	EA			B	3769	08-05-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	101004011	RES. 1.00M OHM MF 1/4W 1%	4.0000	EA			B	3769	08-05-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA			B	3769	08-05-1996		
4	104991011	RES. 4.99K OHM MF 1/4W 1%	1.0000	EA			B	3769	08-05-1996		
4	101503011	RES. 150K OHM MF 1/4W 1%	1.0000	EA			B				
4	530572	DIODE 1N4446 SWITCHING	2.0000	EA			B	4906	05-19-2003		
4	530532	DIODE FD300 GENERAL PURPO	1.0000	EA			B	3769	08-05-1996		
4	521852	CAP. 0.68 MFD 50V CERAMIC	1.0000	EA			B	3769	08-05-1996		
4	521972	CAP. .047 MFD 50V CER X7	1.0000	EA			B	3769	08-05-1996		
4	521072	CAP. 22MFD 16V TANT 10%	2.0000	EA			B	3769	08-05-1996		
4	551122	CHOKO 9250-122 1.2 UH, .1	2.0000	EA			B	3769	08-05-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	1.0000	EA			B	3769	08-05-1996		
4	521862	CAP. 3.3 MFD 50V CERAMC X	1.0000	EA			B	3769	08-05-1996		
4	521872	CAP. 1.0 MFD 50V CERAMIC	5.0000	EA			B	3769	08-05-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	6.0000	EA			B	3769	08-05-1996		
4	531892	REG. LM317LZ +1.2/37V ADJ	1.0000	EA			B	3769	08-05-1996		
4	431902	BIVAR PERMO PAD 0.250 DIA	1.0000	EA			B	3769	08-05-1996		
4	530862	TRAN. 2N2222A NPN MED POW	1.0000	EA			B	3769	08-05-1996		
4	551152	INDUCTOR 100UH +/-10% IMS	2.0000	EA			B	3769	08-05-1996		
4	531882	DIODE LM385BZ-2.5 2.5V RE	6.0000	EA			B	3769	08-05-1996		
4	575602	CONN. HDR AMP STRAIGHT 5	1.0000	EA			B	3769	08-05-1996		
4	574592	CONN. HDR AMP STRAIGHT 4	1.0000	EA			B	3769	08-05-1996		
4	LDN200/04	SEE EXTENDED DESCRIPTION	0.0000	EA			M P				
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA			B	3769	08-05-1996		
4	LDN200/05	SEE EXTENDED DESCRIPTION	0.0000	EA			M P				
2	C11186	PREAMP/ LINEARIZER PCB AS	1.0000	EA			M P	3671	04-08-1996		
3	C20211	SCHEMATIC: PREAMP/ LINEAR	1.0000	EA			M P	4785	03-05-2002		
3	LDN100	PREAMP/ LIN PCB ASSY INFR	1.0000	EA			M P	3659	04-12-1996		
4	502493	PCB DIN RAIL LINEARIZER	1.0000	EA			B	3767	08-07-1996		

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Level	Part Number	Description	Quantity	UM	Alt	MB	X	ECO No.	ECO Date	Start Use	End Use
4	LDN100/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	532982	OP-AMP AD548CQ LOW PWR	1.0000	EA		B		3767	08-07-1996		
4	531862	OP-AMP LM346N PROGRAM QUA	3.0000	EA		B		3767	08-07-1996		
4	530532	DIODE FD300 GENERAL PURPO	16.0000	EA		B		3767	08-07-1996		
4	514632	RES. 330K NETWORK 10 PIN	2.0000	EA		B		3767	08-07-1996		
4	514642	RES. 330K NETWORK 10 PIN	2.0000	EA		B		3767	08-07-1996		
4	104533011	RES. 453K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	1010R0011	RES. 10.0 OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	102743011	RES. 274K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	102103011	RES. 210K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	105364011	RES. 5.36M OHM MF 1/4W 1%	6.0000	EA		B		3767	08-07-1996		
4	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	101003011	RES. 100K OHM MF 1/4W 1%	1.0000	EA		B		3767	08-07-1996		
4	102003011	RES. 200K OHM MF 1/4W 1%	2.0000	EA		B		3767	08-07-1996		
4	101000011	RES. 100 OHM MF 1/4W 1%	2.0000	EA		B		3767	08-07-1996		
4	100000990	JUMPER DUMMY RESISTOR	1.0000	EA		B		3767	08-07-1996		
4	551122	CHOKO 9250-122 1.2 UH, .1	1.0000	EA		B		3767	08-07-1996		
4	540412	FERRITE BEAD ON LEAD AXIA	3.0000	EA		B		3767	08-07-1996		
4	522002	CAP. .01 MFD 200V CERAMIC	7.0000	EA		B		3767	08-07-1996		
4	521902	CAP. NPO 1000pf 200V .2LS	2.0000	EA		B		3767	08-07-1996		
4	521932	CAP. 100 PF COG 200V	1.0000	EA		B		3767	08-07-1996		
4	521962	CAP. 10Pf NPO 200V .2LS	2.0000	EA		B		3767	08-07-1996		
4	514612	POT. 50K 25T 1/2W 10%	1.0000	EA		B		3767	08-07-1996		
4	514242	POT. 25K OHM 25T 1/2W 10%	1.0000	EA		B		3767	08-07-1996		
4	514622	POT. 100K 25T 1/2W 10%	1.0000	EA		B		3767	08-07-1996		
4	574922	CONN. HDR AMP STRAIGHT 3	1.0000	EA		B		3767	08-07-1996		
4	LDN100/03	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	574432	SOCKET 40 POS DIP .5HT EL	1.0000	EA		B		3767	08-07-1996		
4	LDN100/04	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	526002	CAP. SMC 330Pf NPO 50V 5%	1.0000	EA		B		3767	08-07-1996		
4	572732	HEADER SNGL 36 PIN .1 CNT	11.0000	EA		B		3767	08-07-1996		
4	LDN100/05	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
2	C11193	PCB INTERCONNECT ASSEMBLY	1.0000	EA		M	P	3671	04-08-1996		
3	LDN300	PCB INTERCONN ASSY (INFRA	1.0000	EA		M	P				
4	502533	PCB DIN RAIL POWER PEAK-P	1.0000	EA		B		3721	08-01-1996		
4	575922	CONN. FEMALE 11 POSITION	2.0000	EA		B		3721	08-01-1996		
2	477112	LABEL, COVER, DIN BOX	1.0000	EA		B		4909	06-11-2003		
2	C11190	DECAY RATE POT/ CONNECTOR	1.0000	EA		M	P	3671	04-08-1996		
3	LDN003	DECAY RATE POT/ CONN. ASS	1.0000	EA		M	P	4030	10-08-1997		
4	514592	POT. 50K OHM 1T 1/2W 10%	1.0000	EA		B					
4	LDN003/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	302479000	WIRE 24AWG VIO/WHITE STRA	1.0000	IN		B					
4	302409000	WIRE 24AWG BLK/WHITE STRA	1.0000	IN		B					
4	302459000	WIRE 24AWG GRN/WHITE STRA	1.0000	IN		B					
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B					
4	574692	CONN. HOUSING 5 POSITION-	1.0000	EA		B					
2	C11189	RESPONSE TIME POT/ CONNEC	1.0000	EA		M	P	3671	04-08-1996		
3	LDN002	RESP. TIME POT/ CONN. ASS	1.0000	EA		M	P				
4	514602	POT. 5M OHM 1T 1/2W 20% P	1.0000	EA		B					
4	302440000	WIRE 24AWG YEL/BLACK STRA	1.0000	IN		B					
4	302460000	WIRE 24AWG BLU/BLACK STRA	1.0000	IN		B					
4	302430000	WIRE 24AWG ORG/BLACK STRA	1.0000	IN		B					
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B					
4	574682	CONN. HOUSING 4 POSITION-	1.0000	EA		B					
2	C11188	EMISSIVITY POT/ CONNECTOR	1.0000	EA		M	P	3671	04-08-1996		
3	LDN001	EMISSIVITY POT/ CONN. ASS	1.0000	EA		M	P	3767	08-07-1996		
4	513722	POT. 100K 2 DIGIT 1% DIGI	1.0000	EA		B		3767	08-07-1996		
4	30245X000	WIRE 24AWG GREEN STRANDED	1.0000	IN		B		3767	08-07-1996		
4	30249X000	WIRE 24AWG WHITE STRANDED	1.0000	IN		B		3767	08-07-1996		
4	30246X000	WIRE 24AWG BLUE STRANDED	1.0000	IN		B		3767	08-07-1996		
4	574662	CONN. CONTACT 20-24 AWG C	3.0000	EA		B		3767	08-07-1996		
4	574672	CONN. HOUSING 3 POSITION-	1.0000	EA		B		3767	08-07-1996		
4	477212	LABEL - CLEAR WINDOW	1.0000	EA		B		3767	08-07-1996		
2	575852	KNOB, 9MM COLLET TYPE,	2.0000	EA		B		3671	04-08-1996		
2	575872	POINTER, 9MM COLLET TYPE	2.0000	EA		B		3671	04-08-1996		
2	575862	CAP. 9MM COLLET TYPE KNOB	2.0000	EA		B		3671	04-08-1996		
2	C11194	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M	P	3671	04-08-1996		

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Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
3	573912	HEADER 40 PIN DIP .6 CENT	1.0000	EA		B				
3	T-C11194-1	SELECT "M1" MODULE VALUES	0.0000	EA		B				
3	T-C11194-3	GT M1 MODULE VALUES	0.0000	EA		B				
2	575912	CONN. KEYING ELEMENT (DN-	2.0000	EA		B	3671	04-08-1996		
2	477132	LABEL, SERIAL NUMBER, DIN	1.0000	EA		B	3671	04-08-1996		
2	477122	LABEL, DIN BOX, INFRARAIL	1.0000	EA		B	3671	04-08-1996		
2	574082	TERM. BLOCK JUMPER QUICK	1.0000	EA		B	3671	04-08-1996		
2	LDNKIT	MTG CLIP KIT FOR INFRARAI	1.0000	EA		M P	3671	04-08-1996		
3	990300010	CLIP MTG FOR DIN BOX	2.0000	EA		B	3694	04-17-1996		
3	LDNKIT/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-1996		

**DRAWING (S) TOO LARGE  
TO SCAN.**

**TO VIEW THE ORIGINAL  
DESIGN,  
A REQUEST TO VIEW  
PHYSICAL FILE  
IS YOUR NEXT OPTION.**