

DATE: 05-22-2001
REVISION: B
W.O. No. 636565
CUSTOMER: IRCON GmbH
LOCATION: TAUNUSSTEIN
LOCATION: GERMANY

INFRARAIL SPECIAL NUMBER R713

PURPOSE AND DESCRIPTION:

CUSTOMER REQUIRES A SPECIAL TEMPERATURE RANGE INFRARAIL DNE SYSTEM WITH A SPECIAL OPTICAL RESOLUTION.

MODEL: DNE99-99C
RANGE: 375 - 800 DEG. C
OPTICAL RESOLUTION: D/50 WITH FIXED FOCUS AT 30"
WAVELENGTH: 1.49 - 1.6 um

GENERALITY OF APPLICATION AND RESTRICTRIONS:

RESTRICTIONS:

SENSING HEAD AMBIENT TEMPERATURE RESTRICTED TO 0 TO 150 DEG. F (-17 TO 65 DEG. C) AND EMISSIVITY SETTING RESTRICTED TO 0.3 FOR THE FIRST 25 DEGREES OF THE TEMPERATURE SPAN.

UNRESTRICTED, SUITABLE FOR USE WITH ALL STANDARD OPTIONS.

WRITTEN BY:

Ami DONADO

AMI DONADO

APPROVED BY:

Ami DONADO

DATE:

5-22-2001

INFRARAIL SPECIAL NUMBER R713 CONTINUED,

PRODUCTION INSTRUCTIONS:

FOR THE ELECTRONICS MODULE, BUILD THE M1 MODULE PER BILL OF MATERIAL ON PAGE 3.

FOR THE SENSING HEAD, START WITH A MODEL DNE31-13C SENSOR AND MAKE THE FOLLOWING CHANGES:

DETECTOR ASSEMBLY CHANGES: (REF. ASSY. # C11209).

1. INSTALL InGaAs DETECTOR P.N. 59094-2 IN LIEU OF THE STANDARD SILICON DETECTOR.
2. WIRE THE DETECTOR PER DETAIL A OF DRAWING No. C-11207.
3. INSTALL FILTER PART NUMBER 64055-2 (1.49 - 1.60 μm).

SENSING HEAD ASSEMBLY CHANGES: (REF. ASSY. # C11201).

1. INSTALL DETECTOR FIELD STOP P.N. 451323 (.044" ID) IN PLACE OF THE STANDARD P.N. 451322.

CALIBRATION INSTRUCTIONS:

PRE-CAL: PERFORM THE COMPUTERIZED LINEARIZER TEST PER STANDARD PROCEDURE.

$$\begin{aligned} I_{scFS} &= 3.000 \text{ Ua} \\ I_{scZS} &= 0.0103 \text{ Ua} \end{aligned}$$

FINAL-CAL:

CALIBRATE PER STANDARD PROCEDURE.

FOLLOW OUTPUT TABLE ON PAGE 4 ATTACHED.

MANUAL INSTRUCTIONS:

GENERIC INFRARAIL SERIES MANUAL.

INCLUDE THE RESTRICTIONS LISTED ON PAGE 1 OF THESE DETAIL SHEETS.

INFRARAIL SPECIAL NUMBER R713 CONTINUED,

BILL OF MATERIAL

MODEL: DNE99-99C

MODULE M1 REFERENCE: DWG.NO.C11194

SYMBOL	PART NO.	DESCRIPTION		
R1	101074011	RESISTOR	1.07 Mohm	METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7 Kohm	METAL FILM 1/4W 1%
R54	101183011	RESISTOR	118 Kohm	METAL FILM 1/4W 1%
R45	101472011	RESISTOR	14.7 Kohm	METAL FILM 1/4W 1%
R55	105902011	RESISTOR	59.0 Kohm	METAL FILM 1/4W 1%
R46	101002011	RESISTOR	10.0 Kohm	METAL FILM 1/4W 1%
R56	109762011	RESISTOR	97.6 Kohm	METAL FILM 1/4W 1%
R47	106341011	RESISTOR	6.34 Kohm	METAL FILM 1/4W 1%
R57	101623011	RESISTOR	162 Kohm	METAL FILM 1/4W 1%
R48	103831011	RESISTOR	3.83 Kohm	METAL FILM 1/4W 1%
R58	102803011	RESISTOR	280 Kohm	METAL FILM 1/4W 1%
R49	102211011	RESISTOR	2.21 Kohm	METAL FILM 1/4W 1%
R59	104993011	RESISTOR	499 Kohm	METAL FILM 1/4W 1%
R50	101211011	RESISTOR	1.21 Kohm	METAL FILM 1/4W 1%
R60	109313011	RESISTOR	931 Kohm	METAL FILM 1/4W 1%
R51	106650011	RESISTOR	665 ohm	METAL FILM 1/4W 1%
R61	101744011	RESISTOR	1.74 Mohm	METAL FILM 1/4W 1%
R52	103400011	RESISTOR	340 ohm	METAL FILM 1/4W 1%
R53	103240011	RESISTOR	324 ohm	METAL FILM 1/4W 1%
R62	103404011	RESISTOR	3.40 Mohm	METAL FILM 1/4W 1%

INFRARAIL SPECIAL NUMBER R713
TEMPERATURE RANGE: 375 TO 800 DEGREES C
SPECTRUM: 1.49 TO 1.60 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN uAMPS	INDICATOR OUTPUT mAMPS
375.0	0.0103	4.000
400.0	0.0175	4.941
425.0	0.0286	5.882
450.0	0.0454	6.824
475.0	0.0697	7.765
500.0	0.1041	8.706
525.0	0.1516	9.647
550.0	0.2160	10.588
575.0	0.3012	11.529
600.0	0.4122	12.471
625.0	0.5544	13.412
650.0	0.7338	14.353
675.0	0.9570	15.294
700.0	1.2312	16.235
725.0	1.5641	17.176
750.0	1.9640	18.118
775.0	2.4396	19.059
800.0	3.0000	20.000

SEE REV B

AD. 5-22-01

PAGE 1 OF 4
DATE: 05-21-1997
REVISION: A
W.O. NO: 636565
CUSTOMER: IRCON GMBH
LOCATION: GERMANY

INFRARAIL SPECIAL NUMBER R713

PURPOSE AND DESCRIPTION:

CUSTOMER REQUIRES A INFRARAIL TEMPERATURE SYSTEM WITH A SPECIAL TEMPERATURE RANGE AND OPTICAL RESOLUTION AS FOLLOWS :

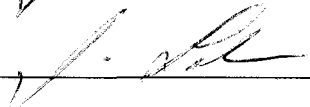
MODEL: DNE99-99C
RANGE: 375 - 800 DEG. C
OPTICAL RESOLUTION: D/50 WITH FIXED FOCUS AT 30"
WAVELENGTH: 1.49 - 1.6 um

GENERALITY OF APPLICATION AND RESTRICTIONS:

RESTRICTIONS: SENSING HEAD RESTRICTED TO AMBIENT TEMPERATURES OF 0° TO 150°F (-17° TO 65°C) AND AN EMISSIVITY SETTING OF 0.3 FOR THE FIRST 25°C OF THE TEMPERATURE SPAN.

UNRESTRICTED: SUITABLE FOR USE WITH ALL STANDARD OPTIONS.

WRITTEN BY: 

APPROVED BY:  DATE: 5-21-97

INFRARAIL SPECIAL NUMBER R713

REVISION:A
DATE: 5-21-1997

PRODUCTION INSTRUCTIONS:

FOR THE ELECTRONICS MODULE, INSTALL M1 MODULE AS PER BILL OF MATERIAL ON PAGE 3.

FOR THE SENSING HEAD, START WITH A MODEL DNE31-13C SENSOR AND MAKE THE FOLLOWING CHANGES:

DETECTOR ASSEMBLY (C11209) CHANGES:

1. FOR THE DETECTOR , USE DETECTOR P.N. 590792 (InGaAs) IN PLACE OF SILICON DETECTOR.
2. WIRE THE DETECTOR PER **DETAIL A** OF DRAWING **C-11207**.
3. FOR THE FILTER USE P.N. 64055-2 (1.49 - 1.6 um).

FOR THE SENSING HEAD FINAL ASSEMBLY (C11201) , USE DETECTOR FIELD STOP P.N. 45132-3 (0.044 " I.D.) IN PLACE OF ITEM 1 P.N.451322 (.022 DIA.).

CALIBRATION INSTRUCTIONS:

CALIBRATE AS PER STANDARD.

Isc @ Tbb 800°C = 3.00 uA.

MANUAL INSTRUCTIONS:

GENERIC INFRARAIL SERIES MANUAL.

INFRARAIL SPECIAL NUMBER R713
TEMPERATURE RANGE: 375 TO 800 DEGREES C
SPECTRUM: 1.49 TO 1.60 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN nAMPS	INDICATOR OUTPUT mAMPS
375.0	10.2708	4.000
400.0	17.4807	4.941
425.0	28.6430	5.882
450.0	45.3618	6.824
475.0	69.6710	7.765
500.0	104.0861	8.706
525.0	151.6488	9.647
550.0	215.9639	10.588
575.0	301.2265	11.529
600.0	412.2392	12.471
625.0	554.4182	13.412
650.0	733.7897	14.353
675.0	956.9757	15.294
700.0	1231.1700	16.235
725.0	1564.1096	17.176
750.0	1964.0284	18.118
775.0	2439.6250	19.059
800.0	3000.0000	20.000

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

**TO VIEW THE ORIGINAL
DESIGN,**

**A REQUEST TO VIEW
PHYSICAL FILE
IS YOUR NEXT OPTION.**

R713
S/O 85075

Section 1 — GENERAL INFORMATION

1.5 PRODUCT MODIFICATION

IRCON InfraRail Model DNE99-99C is modified for a special temperature range of 375 to 800°C with a special optical resolution of D/50 at a fixed focus of 30 inches. The wavelength specified is 1.49 - 1.6 μm .

RESTRICTIONS: Sensing head is restricted to ambient temperatures of 0° to 150°F (-17° to 65°C) and an emissivity setting of 0.3 for the first 25°C of the temperature span.

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. R713.

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

R713

S/O 84251

Section 1 — GENERAL INFORMATION

1.5 PRODUCT MODIFICATION

IRCON InfraRail Model DNE99-99C is modified for a special temperature range of 375 to 800°C with a special optical resolution of D/50 at a fixed focus of 30 inches. The wavelength specified is 1.49 - 1.6 μm .

RESTRICTIONS: Sensing head is restricted to ambient temperatures of 0° to 150°F (-17° to 65°C) and an emissivity setting of 0.3 for the first 25°C of the temperature span.

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



Engineering Special or System Request

Page ___ of ___

From: V. LAPPE

Date: MAY 15, 1997

To: J. LARSEN

Customer: IRCON 6METH

Description of Request: "E" SERIES DIN RAIL.

Base standard model or series:

USE IN GAS DETECTOR

DISCRE -

RANGE 375-800°C -

HE WANTS TO KNOW AT 450°C WHAT WOULD BE LIMITATIONS EMISSIVITY -

HE WANTS 0.1 → 1.0.

33 Units Req'd.

Details of specific approval:

ϵ AT 450°C 0.1 - 1.0 ok

$I_{sc}^{\epsilon=1.0}$ 375°C ≈ 10 mA

$I_{sc}^{\epsilon=1.0}$ 800°C ≈ 700 nA

MAXIMUM

Specific Exceptions:

check stock of Detectors and lenses

Price: \$ 375 + 350 additional
(adder to standard)

Delivery: 1-2 wks
(adder to standard)

Approved by: [Signature]

Date: 5-15-97

WORKING UNIT TEST FOR COMPARISON

SENSOR S.N. 1838
MODULE S.N. 1838

06/16/97 11:00 AM



INFRARAIL CALIBRATION TEST REPORT

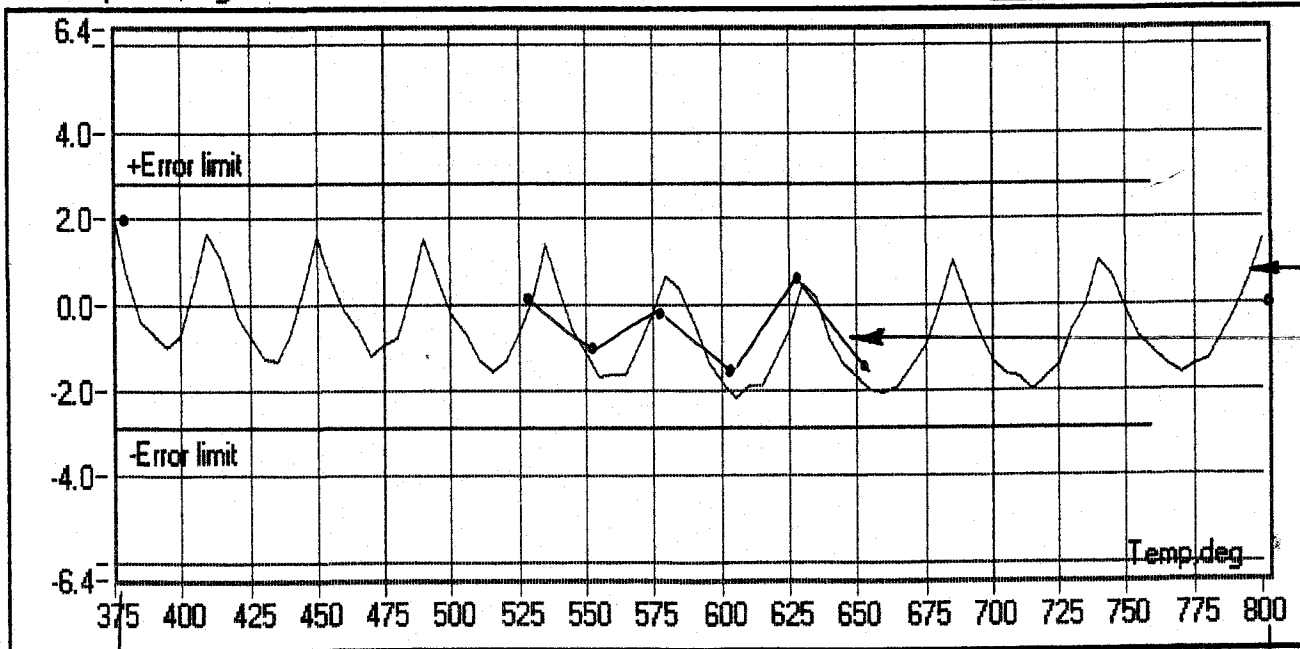
TECHNICIAN# 273 SERIAL# 1838

MODEL# DN E99-99C SPECIAL# R713

FULL SCALE 800C FS CURRENT= 3.000 μ A λ_{max} = 1.60
ZERO SCALE 375C ZS CURRENT= 0.010 μ A λ_{min} = 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	$3.2 \pm 0.005V$	3.200	P
2. CURRENT OUTPUT	$4 \pm 0.05 mA$ $20 \pm 0.05 mA$	4.03 20.00	P
3. LINEARIZER TEST			PASS
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	$10 \pm 2 S$ $10 \pm 2 mS$	10.5 11.0	P
6. P-P DECAY RATE	$< 0.05\%$ $5 - 6.5\%$	0.032 6.3	P

Temp. Error, deg



MODULE TEST ONLY
COMPLETE UNIT TEST

377

800°C (SET)

Tech# _____ DATE _____ QA# _____

7-03-97
A.D.

TRIAL TEST ONLY
WORKING MODULE #1838

7-02-97
A.D.

INFRARAIL SPECIAL R713
375-800°C
OUTPUT VS TEMPERATURE TEST

TRIAL TEST ONLY FOR COMPARISON

	TBB °C	I _{out} mA	TEMP.	ERROR
(set)	800°C	20.00 mA	800°C	0.000 °C
	651	14.331	649.4	-1.60
	626	13.480	626.8	+0.80
	602	12.487	600.4	-1.60
	576	11.558	575.8	-0.20
	551	10.583	549.9	-1.10
	526	9.694	526.2	+0.20
	377	4.150	379.0	+2.00

EQUIPMENT USED:

SENSOR S.N. 1838, MODULE S.N. 1838
BLACK BODIES, C-0710, C0711, C0714 (@ CAL. AREA)
POWER SUPPLY # C-0904
MULTIMETER # E-0410

SENSOR S.N. 1838
 MODULE S.N. 1849

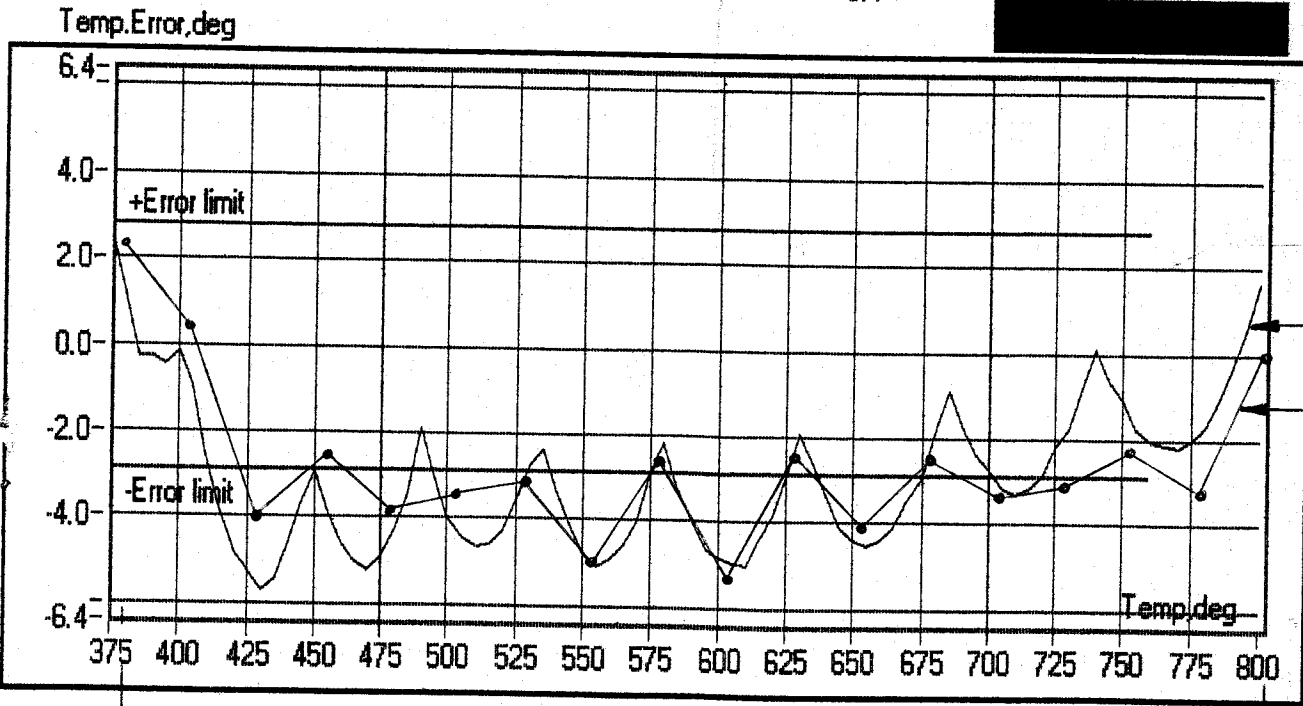
07/01/97 10:35 AM



INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 273 SERIAL# 1849
 MODEL# DN E99-99C SPECIAL# R713
 FULL SCALE 800C FS CURRENT= 3.000 uA λ_{max} = 1.60
 ZERO SCALE 375C ZS CURRENT= 0.010 uA λ_{min} = 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.200	P
2. CURRENT OUTPUT	4 ± 0.05 mA 20 ± 0.05 mA	4.01 20.01	P
3. LINEARIZER TEST			FAIL
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S 10 ± 2 mS	11.1 11.0	P
6. P-P DECAY RATE	$< 0.05\%$ 5 - 6.5%	0.019 6.4	P



MODULE ONLY
 COMPLETE UNIT.
 BB. SOURCE

377°

800° (SET)

Tech# _____ DATE _____ QA# _____

7-03-97
 A.D.

INFRARAIL SPECIAL NUMBER R713
TEMPERATURE RANGE: 375 TO 800 DEGREES C
SPECTRUM: 1.49 TO 1.60 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN nAMPS	INDICATOR OUTPUT mAMPS
375.0	10.2708	4.000
400.0	17.4807	4.941
425.0	28.6430	5.882
450.0	45.3618	6.824
475.0	69.6710	7.765
500.0	104.0861	8.706
525.0	151.6488	9.647
550.0	215.9639	10.588
575.0	301.2265	11.529
600.0	412.2392	12.471
625.0	554.4182	13.412
650.0	733.7897	14.353
675.0	956.9757	15.294
700.0	1231.1700	16.235
725.0	1564.1096	17.176
750.0	1964.0284	18.118
775.0	2439.6250	19.059
800.0	3000.0000	20.000

7-02-97
A.D.

INFRARAIL SPECIAL # R713 (375-800°C)
OUTPUT VS. TEMPERATURE TEST.

SPEC. = 0.75% OF F.S. (6°C)

SENSOR S.N. 1838 - (1849 NOT AVAILABLE)
MODULE S.N. 1849

TBB °C	I _{OUT} mA	EQUIV. TEMP. °C	ERROR °C
377°C	4.160 mA	379.3°C	+2.3°C
402	5.041	402.6	+0.6
426	5.772	422	-4
452	6.800	449.4	-2.6
476	7.667	472.4	-3.6
501	8.610	497.5	-3.5
526	9.563	523	-3
552	10.470	546.9	-5
576	11.465	573.3	-2.7
602	12.350	596.8	-5.2
626	13.360	623.6	-2.4
651	14.241	647	-4
676	15.240	673.6	-2.4
701	16.147	697.7	-3.3
726	17.094	723	-3
751	18.067	748.7	-2.3
776	18.972	772.7	-3.3
800	20.00 (set)	800	0.0

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 07/12/97

SOLD TO CUSTOMER NO. 008241

OUR ORDER NO. ORDER DATE MONTH/DAY/YEAR
PD 306102/00 05/27/97

YOUR ORDER NO. D-5888

IRCON GMBH
POSTFACH 1361, D-65221
TAUNUSSTEIN, GRILLPARZERSTR 40
GERMANY

TERMS NET 30
X OTHER NET 60

SHIPPING ADDRESS TAX CODE
NO TAX

F.O.B. X NILES, ILLINOIS

INTROPA
SPEDITIONSGESELLSCHAFT GMBH
FRANKFURT AIRPORT
ZUR VERFUEGUNG IRCONGMBH

CODE 726 .00

VIA DANZAS PPD. COLL.
X

SPECIAL SHIPPING INSTRUCTIONS

5/27/97 PAGE 2

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR XXXXXXXXXX	AMOUNT U.S. DOLLAR XXXXXXXXXX
			(CONTINUED FROM PREV PAGE) ** SEE ENGINEERING DEPT. **				
			SUB TOTALS				844.90
			GRAND TOTAL				844.90
					BILLINGS IN	D.M.	

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

800
375
425 = SPAN

INFRARAIL SPECIAL NUMBER R713
TEMPERATURE RANGE: 375 TO 800 DEGREES C
SPECTRUM: 1.49 TO 1.60 MICRONS

SENSOR # 1838
MODULE SERIAL # 1849

TEMPERATURE DEGREES C	SENSOR OUTPUT IN nAMPS	INDICATOR OUTPUT mAMPS	EQUIVALENT TEMPERATURE (ERROR)
OF TBB TBB ACTUAL	Tout		
707 — 375.0 — 377 ^c — 10.2708 — 4.16 mA — 4.000 — 379.25 °C (+2.3)			
752 — 400.0 — 402 — 17.4807 — 5.04 — 4.941 — 402.6 (+1)			
797 — 425.0 — 426 — 28.6430 — 5.77 — 5.882 — 422.0 (-4)			
842 — 450.0 — 452 — 45.3618 — 6.80 — 6.824 — 449.4 (-3)			
887 — 475.0 — 476 — 69.6710 — 7.667 — 7.765 — 472.4 (-4)			
932 — 500.0 — 501 — 104.0861 — 8.610 — 8.706 — 497.5 (-4)			
977 — 525.0 — 526 — 151.6488 — 9.563 — 9.647 — 523 (-3)			
1022 — 550.0 — 552 — 215.9639 — 10.470 — 10.588 — 546.9 (-5)			
1067 — 575.0 — 576 — 301.2265 — 11.465 — 11.529 — 573.3 (-3)			
1112 — 600.0 — 602 — 412.2392 — 12.35 — 12.471 — 596.8 (-5)			
1157 — 625.0 — 626 — 554.4182 — 13.36 — 13.412 — 623.6 (-3)			
1202 — 650.0 — 651 — 733.7897 — 14.24 — 14.353 — 647.0 (-4)			
1247 — 675.0 — 676 — 956.9757 — 15.24 — 15.294 — 673.6 (-3)			
1292 — 700.0 — 701 — 1231.1700 — 16.147 — 16.235 — 697.7 (-3)			
1337 — 725.0 — 726 — 1564.1096 — 17.094 — 17.176 — 723 (-3)			
1382 — 750.0 — 751 — 1964.0284 — 18.067 — 18.118 — 748.7 (-3)			
1427 — 775.0 — 776 — 2439.6250 — 18.972 — 19.059 — 772.7 (-4)			
1472 — 800.0 — 800 — 3000.0000 — 20.00 (SET) — 20.000 — 800.0			

SAME SENSOR (1838)
W/ MODULE # 1838

TBB (ACTUAL) °C

Iout (mA)

TEMP. °C

377		
402		
426		
452		
476		
501		
526	9.694	626.2
551	10.583	549.9
576	11.558	575.8
602	12.487	600.4
626	13.480	626.8
651	14.331	649.4
676		
701		
726		
751		
776		
800	20.00 mV (SET)	800.0

FOR REFERENCE 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

SCHEDULED SHIPPING WEEK MONTH/DAY/YEAR
ENDING 07/12/97

OUR ORDER NO. PD 306102/00 ORDER DATE MONTH/DAY/YEAR 05/27/97

YOUR ORDER NO. D-5888

TERMS NET 30
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

CODE 726 .00

VIA DANZAS PPD. X COLL.

SPECIAL SHIPPING INSTRUCTIONS

SOLD TO CUSTOMER NO. 008241

IRCON GMBH
POSTFACH 1361, D-65221
TAUNUSSTEIN, GRILLPARZERSTR 40
GERMANY

SHIPPING ADDRESS TAX CODE NO TAX

INTROPA
SPEDITIONSGESELLSCHAFT GMBH
FRANKFURT AIRPORT
ZUR VERFUEGUNG IRCONGMBH

5/27/97 PAGE 1

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR X	AMOUNT U.S. DOLLAR X
01		1	INFRARAIL SENSING HEAD MODEL DNE99-99C SERIAL NBR 001868 CABLE(S) 4 MET. EA (4 MET. EA INCLUDED IN ABOVE) ***** * SPECIAL Z999 * ***** !!!!!!!!!!!!WARNING!!!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **	EA		675.92	675.92
02		1	INFRARAIL RANGE MODULE MODEL DNE99-99C ***** * SPECIAL Z999 * ***** !!!!!!!!!!!!WARNING!!!!!!!!!!!! ** SPL # TO BE DETERMINED ** (CONTINUED ON NEXT PAGE)	EA		168.98	168.98

*Redo Special No R 713 - Buy
range 375-800C
+ D/50 Resolution
RHB
Same as last*

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

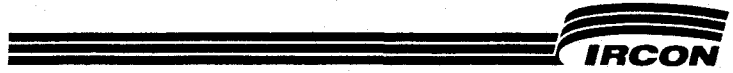
IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

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

ORIGINAL

Part No. 020172 Rev C 12/95

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 07/12/97

SOLD TO CUSTOMER NO. 008241

OUR ORDER NO. SA 063565/00 ORDER DATE MONTH/DAY/YEAR 05/21/97

IRCON GMBH
POSTFACH 1361, D-65221
TAUNUSSTEIN, GRILLPARZERSTR 40
GERMANY

YOUR ORDER NO. D-5884

TERMS NET 30
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

SHIPPING ADDRESS TAX CODE NO TAX

CODE 726 .00

INTROPA
SPEDITIONSGESELLSCHAFT GMBH
FRANKFURT AIRPORT
ZUR VERFUEGUNG IRCONGMBH

VIA DANZAS PPD. X COLL.

SPECIAL SHIPPING INSTRUCTIONS

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR X	AMOUNT U.S. DOLLAR X
01	11		INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 001834 THRU 001844 CABLE(S) 4 MET. EA (4 MET. EA INCLUDED IN ABOVE) ***** * SPECIAL Z999 ***** !!!!!!!!!!WARNING!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **	EA		1351.84	14870.24
<p><i>Eng Chg - \$50/unit</i></p> <p><i>New Special Temp 375-800C</i></p> <p><i>D/50 Resolution, and</i></p> <p><i>INGAs Detector</i></p>							
02	11		INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 001845 THRU 001855 CABLE(S) 4 MET. EA (4 MET. EA INCLUDED IN ABOVE) (CONTINUED ON NEXT PAGE)	EA		1351.84	14870.24
<p><i>RHB 5/21/97</i></p>							

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

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 07/12/97

OUR ORDER NO. ORDER DATE MONTH/DAY/YEAR
SA 063565/00 05/21/97

YOUR ORDER NO.
D-5884

TERMS NET 30
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

CODE 726 .00

VIA DANZAS PPD. COLL.
X

SPECIAL SHIPPING INSTRUCTIONS

SOLD TO CUSTOMER NO. 008241

IRCON GMBH
POSTFACH 1361, D-65221
TAUNUSSTEIN, GRILLPARZERSTR 40
GERMANY

SHIPPING ADDRESS TAX CODE NO TAX

INTROFA
SPEDITIONSGESELLSCHAFT GMBH
FRANKFURT AIRPORT
ZUR VERFUEGUNG IRCONGMBH

5/21/97 PAGE 2

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR X	AMOUNT U.S. DOLLAR X
03	11		(CONTINUED FROM PREV PAGE) ***** * SPECIAL Z999 <i>Same as item 1</i> * * ***** !!!!!!!!!!!WARNING!!!!!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. ** INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 001856 THRU 001866 CABLE(S) 4 MET. EA (4 MET. EA INCLUDED IN ABOVE) ***** * SPECIAL Z999 <i>Same as item #</i> * * ***** !!!!!!!!!!!WARNING!!!!!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. ** (CONTINUED ON NEXT PAGE)	EA		1351.84	14870.24

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

Part No. 020172 Rev C 12/95

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 07/12/97

OUR ORDER NO. ORDER DATE MONTH/DAY/YEAR
SA 063565/00 05/21/97

YOUR ORDER NO. D-5884

TERMS NET 30
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

CODE 726 .00

VIA DANZAS PPD. X COLL.

SPECIAL SHIPPING INSTRUCTIONS

SOLD TO CUSTOMER NO. 008241

IRCON GMBH
POSTFACH 1361, D-65221
TAUNUSSTEIN, GRILLPARZERSTR 40
GERMANY

SHIPPING ADDRESS TAX CODE
ND TAX

INTROPA
SPEDITIONSGESELLSCHAFT GMBH
FRANKFURT AIRPORT
ZUR VERFUEGUNG IRCONGMBH

5/21/97 PAGE 3

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR XXXXXXXXX	AMOUNT U.S. DOLLAR XXXXXXXXX
			(CONTINUED FROM PREV PAGE)				
			SUB TOTALS				44610.72
			GRAND TOTAL				44610.72
			BILLINGS IN			D.M.	

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

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

TO VIEW THE ORIGINAL

DESIGN,

A REQUEST TO VIEW

PHYSICAL FILE

IS YOUR NEXT OPTION.

TEST for offset Voltage

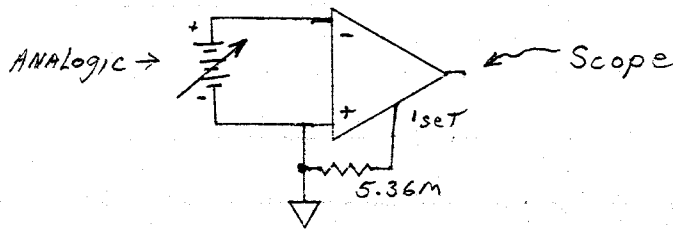
LM 346N Quad opamps from Joe L.

LM 346N	A-offset	B-offset	C-offset	D-offset
1	- .40mv	.16mv	- .15mv	- .68mv
2	- .75mv	1mv	- .19mv	- .60mv
3	- 1.03mv	- .63mv	.12mv	- .77mv
4	- .29mv	.31mv	.09mv	- .60mv
5	- .61mv	- .70mv	- .22mv	- .82mv

J.L.
7-14-97

Test for offset voltage of 246 quad op amp.

XR246 #	A offset	B offset	C offset	D offset
1	- .05mv	.43mv	- .06mv	.02mv
2	- .90mv	1.17mv	—	—
3	.87mv	- .51mv	- .26mv	.27mv
4	.06mv	.50mv	.32mv	- .18mv
5	- .29mv	.24mv	.19mv	.84mv



J.K.
7-10-97

US-46-246N
41-548

SN 1234

07/23/97 02:57 PM

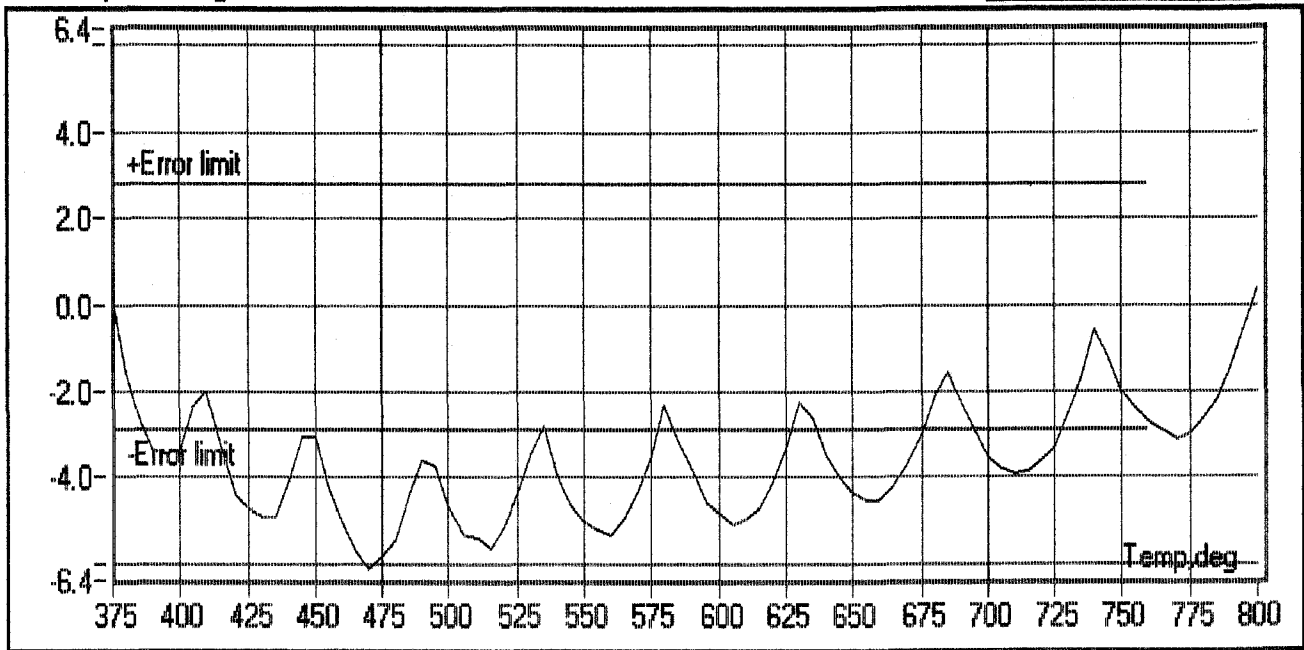


INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 273 SERIAL# 0
MODEL# DN S05-99C SPECIAL# R999
FULL SCALE 800C FS CURRENT= 7.000 μ A λ_{max} = 1.60
ZERO SCALE 375C ZS CURRENT= 0.024 μ A λ_{min} = 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.200	P
2. CURRENT OUTPUT	4 ± 0.05 mA 20 ± 0.05 mA	3.99 19.99	P
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S 10 ± 2 mS	11.7 10.0	P
6. P-P DECAY RATE	$< 0.05\%$ 5 - 6.5 %	0.048 6.4	P

Temp.Error.deg



John's mod.

Tech#

DATE

Q&#

U5 - U6 = 246N
U1 = 548

07/23/97 02:23 PM

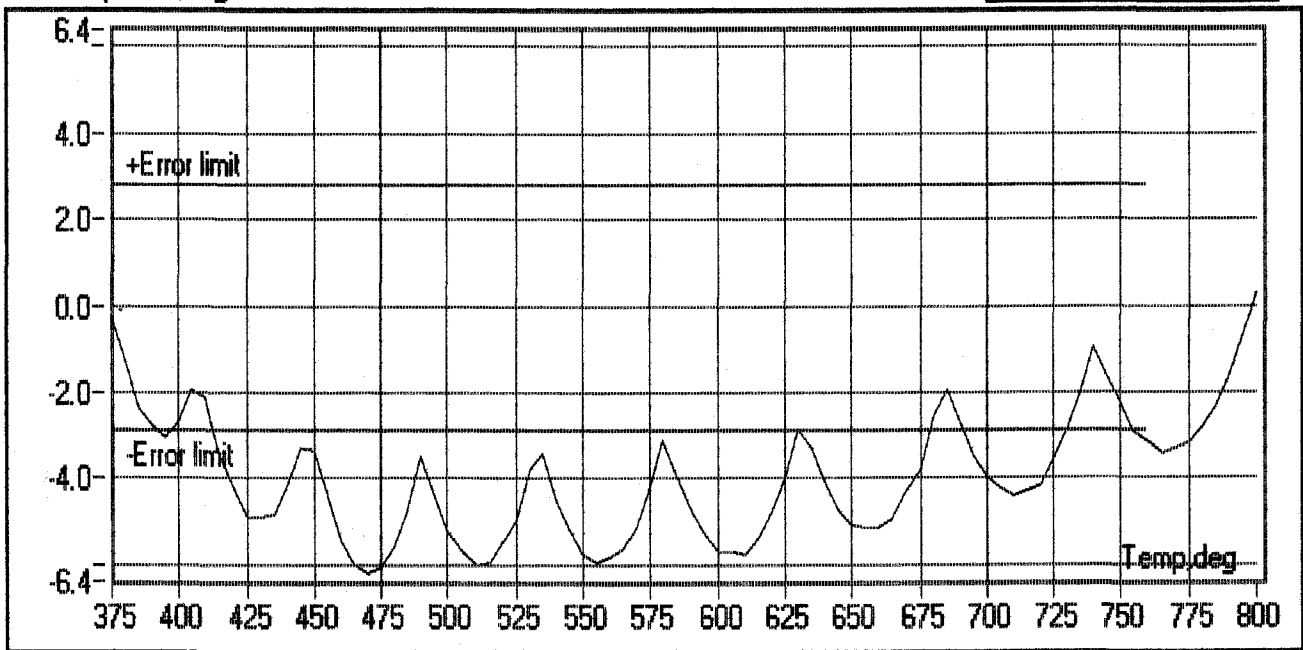


INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 0 SERIAL# 0
MODEL# DN S05-99C SPECIAL# R999
FULL SCALE 800C FS CURRENT= 7.000 μ A λ_{max} = 1.60
ZERO SCALE 375C ZS CURRENT= 0.024 μ A λ_{min} = 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.200	P
2. CURRENT OUTPUT	4 ± 0.05 mA 20 ± 0.05 mA	4.01 20.01	P
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S 10 ± 2 mS	11.7 11.0	P
6. P-P DECAY RATE	$< 0.05\%$ $5 - 6.5\%$	0.044 6.4	P

Temp. Error, deg



UN ADJUSTED
CURVE

Tech# _____ DATE _____ QA# _____

CHIPS 536

U5 - U6 = LM246J
U1 = 598

07/23/97 12:43 PM

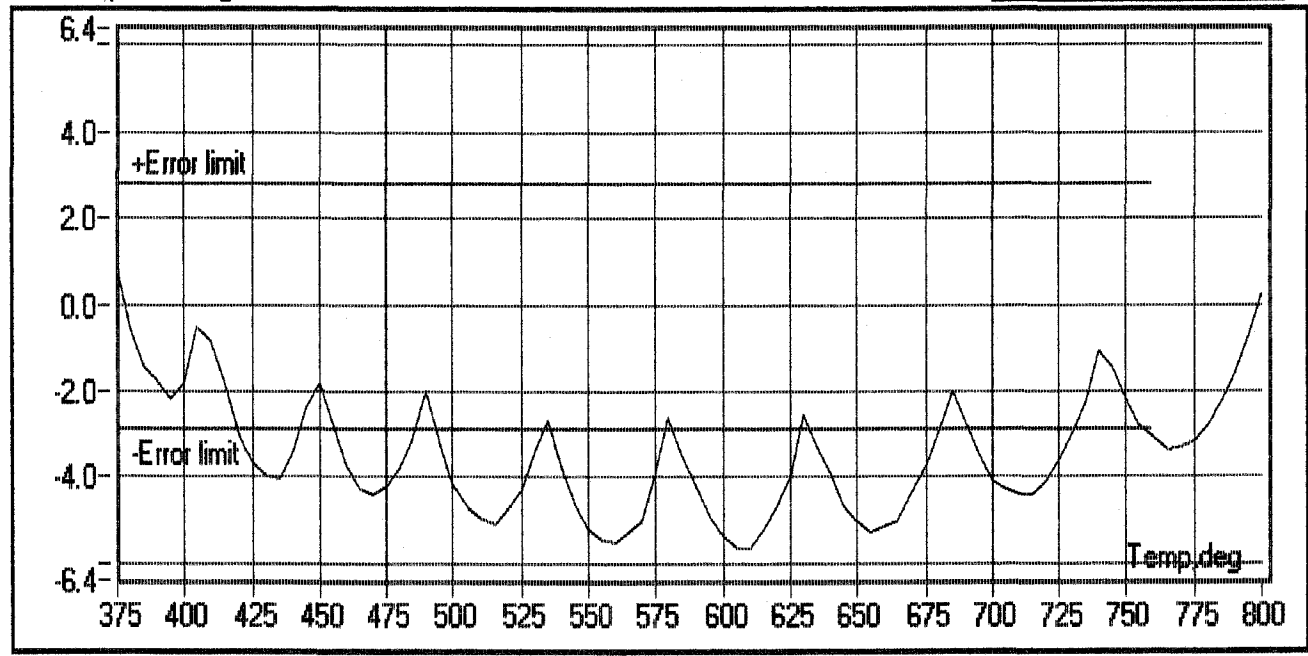


INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 273 SERIAL# 1234
 MODEL# DN E99-99C SPECIAL# R713
 FULL SCALE 800C FS CURRENT= 3.000 uA λ_{max}= 1.60
 ZERO SCALE 375C ZS CURRENT= 0.010 uA λ_{min}= 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.200	P
2. CURRENT OUTPUT	4 ± 0.05 mA 20 ± 0.05 mA	4.00 19.99	P
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S 10 ± 2 mS	11.7 11.0	P
6. P-P DECAY RATE	< 0.05% 5 - 6.5 %	0.035 6.4	P

Temp. Error, deg



(TYPICAL)
UNADJUSTED CURVE

Tech# _____ DATE _____ QA# _____

U5 - U6 = 0P490EY
U1 = 548

07/23/97 01:16 PM

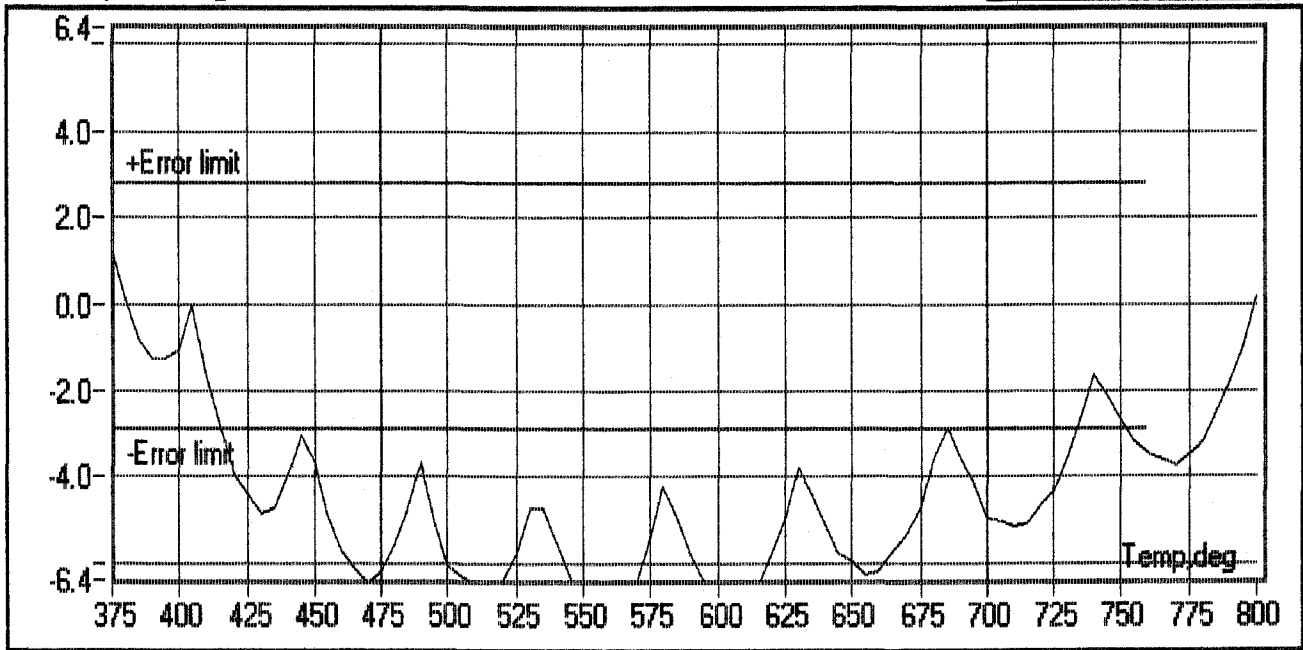


INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 273 SERIAL# 1234
MODEL# DN E99-99C SPECIAL# R713
FULL SCALE 800C FS CURRENT= 3.000 μ A λ_{max} = 1.60
ZERO SCALE 375C ZS CURRENT= 0.010 μ A λ_{min} = 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.200	P
2. CURRENT OUTPUT	4 ± 0.05 mA	4.02	P
	20 ± 0.05 mA	20.00	
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S	11.7	P
	10 ± 2 mS	11.0	
6. P-P DECAY RATE	$< 0.05\%$	0.028	P
	5 - 6.5 %	6.3	

Temp. Error, deg



UNADJUSTED CURVE
(TYPICAL)

Tech# _____ DATE _____ QA# _____

CHIPS #1 & 2

U1 = 548

U6 = LM346N
U5 =

07/23/97 11:18 AM



INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 273

SERIAL# 1234

MODEL# DN E99-99C

SPECIAL# R713

FULL SCALE 800C

FS CURRENT = 3.000 μ A

λ_{max} = 1.60

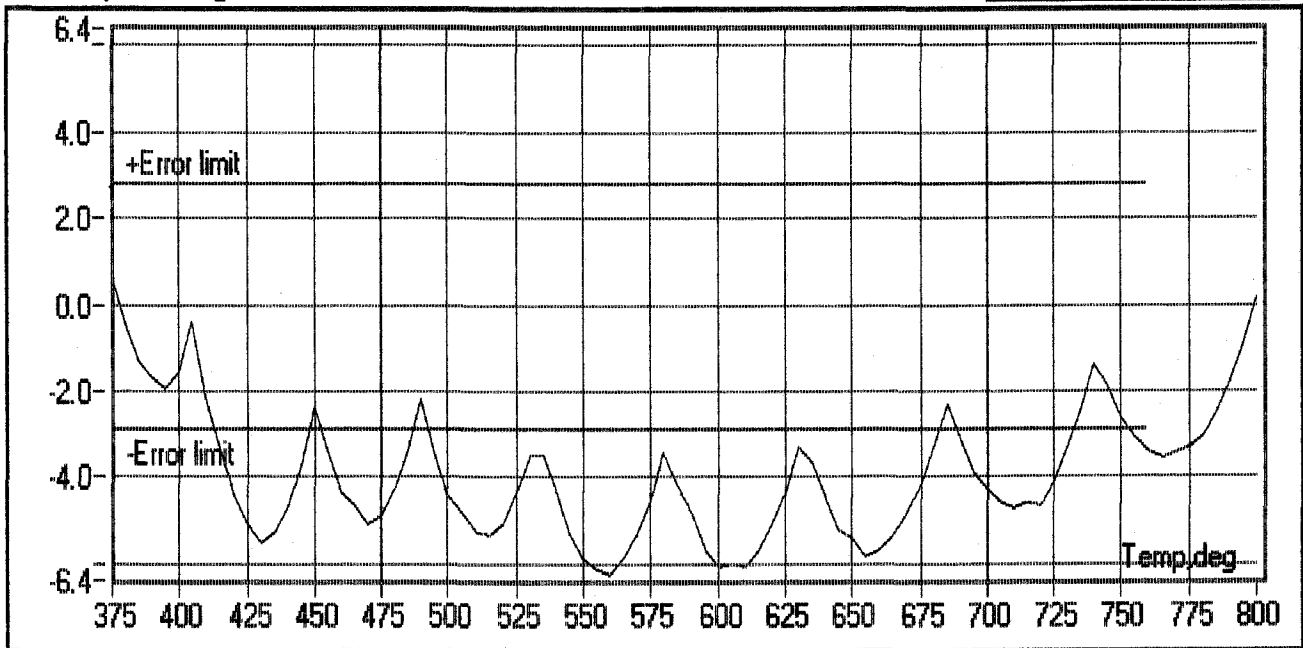
ZERO SCALE 375C

ZS CURRENT = 0.010 μ A

λ_{min} = 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.199	P
2. CURRENT OUTPUT	4 ± 0.05 mA	4.00	P
	20 ± 0.05 mA	19.98	
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S	11.7	P
	10 ± 2 mS	10.0	
6. P-P DECAY RATE	< 0.05%	0.040	P
	5 - 6.5%	6.4	

Temp. Error, deg



(TYPICAL)
UNADJUSTED
CURVE

Tech# _____

DATE _____

QA# _____

CHIPS 384

U5, U6 = LM346N
U1 = 548

07/23/97 11:51 AM

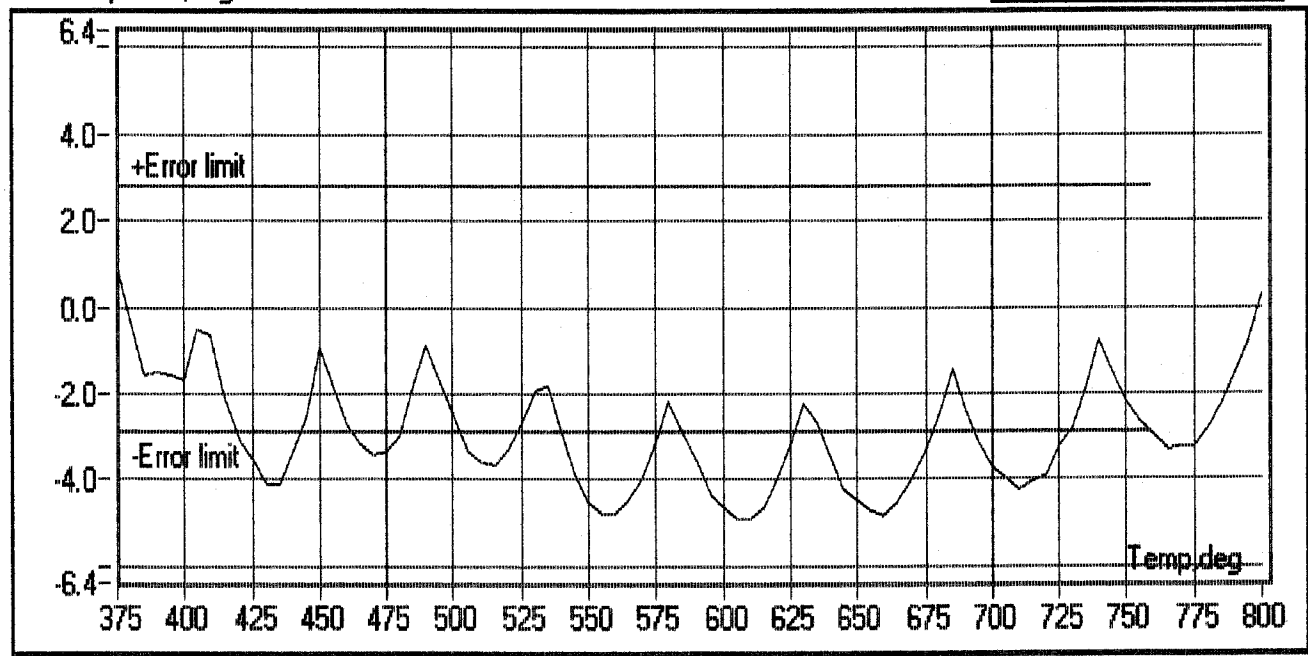


INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 273 SERIAL# 1234
 MODEL# DN E99-99C SPECIAL# R713
 FULL SCALE 800C FS CURRENT= 3.000 uA λ_{max}= 1.60
 ZERO SCALE 375C ZS CURRENT= 0.010 uA λ_{min}= 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.200	P
2. CURRENT OUTPUT	4 ± 0.05 mA 20 ± 0.05 mA	4.01 20.00	P
3. LINEARIZER TEST			F
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S 10 ± 2 mS	11.6 11.0	P
6. P-P DECAY RATE	< 0.05% 5 - 6.5 %	0.039 6.4	P

Temp. Error, deg



UNADJUSTED CURVE (BEST)

Tech# _____ DATE _____ QA# _____

~~7705Ω~~
R57 = 357Ω

11/26/97 04:19 PM

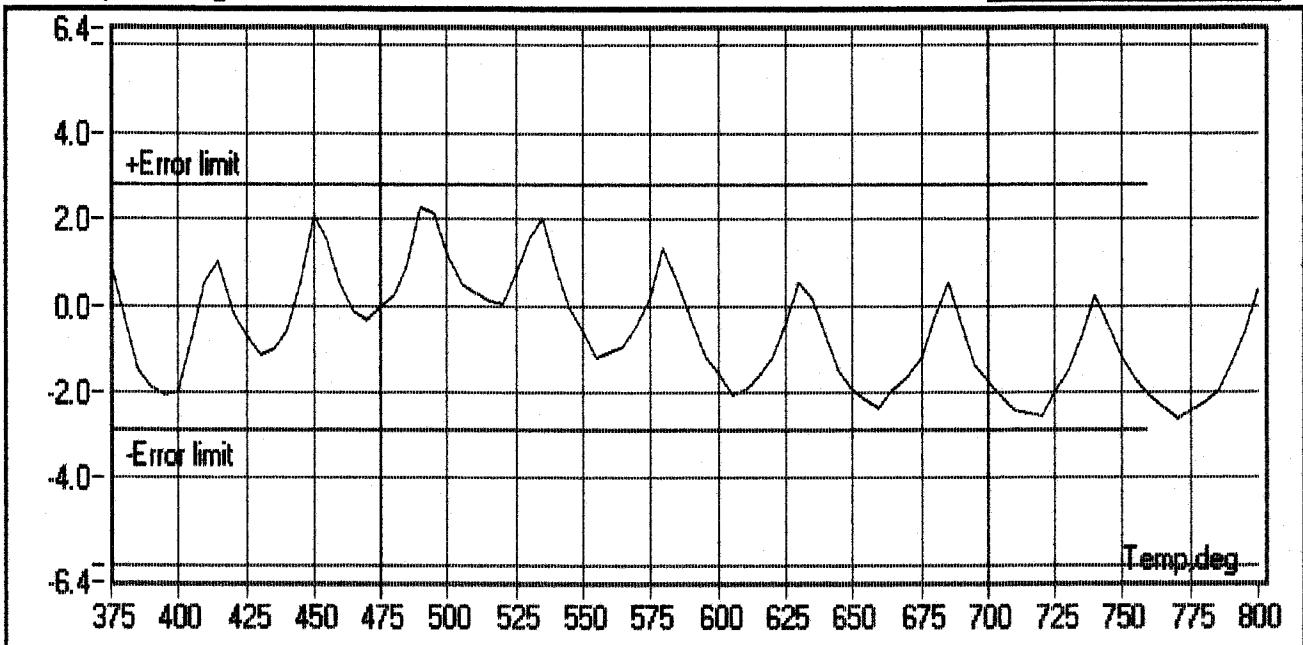


INFRARAIL CALIBRATION TEST REPORT

TECHNICIAN# 639 SERIAL# 0
 MODEL# DN E99-99C SPECIAL# R713
 FULL SCALE 800C FS CURRENT= 3.000 uA λmax= 1.60
 ZERO SCALE 375C ZS CURRENT= 0.010 uA λmin= 1.49

TEST NAME	SPEC.	TEST RESULT	EVAL
1. REFERENCE 3.2V	3.2 ± 0.005 V	3.199	P
2. CURRENT OUTPUT	4 ± 0.05 mA 20 ± 0.05 mA	4.13 20.01	P
3. LINEARIZER TEST			P
4. EMISSIVITY CONTROL			P
5. RESPONSE TIME	10 ± 2 S 10 ± 2 mS	10.7 10.0	P
6. P-P DECAY RATE	< 0.05% 5 - 6.5%	0.048 6.3	P

Temp. Error, deg



Tech# _____ DATE _____ QA# _____

w/o 66051

Section 1 — GENERAL INFORMATION

1.5 SPECIAL MODIFICATIONS

IRCON InfraRail Model DNE99-99C, Serial Nos. 002596 through 002598 are modified for a special temperature range of 375 to 800°C with a special optical resolution of D/50 at a fixed focus of 30 inches. The wavelength specified is 1.49 - 1.6 μm .

RESTRICTIONS: Sensing head is restricted to ambient temperatures of 0° to 150°F (-17° to 65°C) and an emissivity setting of 0.3 for the first 25°C of the temperature span.

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. R713.

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



BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*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	19.8000	FT		B				
1	C11201-R713	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451323	FIELD STOP .044DIA	1.0000	EA		B	3709	05-17-96		
2	C11201/01	SEE EXTENDED DESCRIPTION	8.0000	EA		B				
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	3.0000	EA		B				
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		B				
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	3.0000	EA		B				
2	D11198/02	SEE EXTENDED DESCRIPTION	8.0000	EA		B				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		B				
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-R713	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	101074011	RES. 1.07M OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101183011	RES. 118K OHM MF 1/4W 1%	1.0000	EA		B				

STD. =

See newest CONFIGURATION

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
2	101472011	RES. 14.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	105902011	RES. 59.0K OHM MF 1/4W 1%	1.0000	EA		B				
2	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B				
2	109762011	RES. 97.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	106341011	RES. 6.34K OHM MF 1/4W 1%	1.0000	EA		B				
2	101623011	RES. 162K OHM MF 1/4W 1%	1.0000	EA		B				
2	103831011	RES. 3.83K OHM MF 1/4W 1%	1.0000	EA		B				
2	102803011	RES. 280K OHM MF 1/4W 1%	1.0000	EA		B				
2	102211011	RES. 2.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B				
2	101211011	RES. 1.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	109313011	RES. 931K OHM MF 1/4W 1%	1.0000	EA		B				
2	106650011	RES. 665 OHM MF 1/4W 1%	1.0000	EA		B				
2	101744011	RES. 1.74M OHM MF 1/4W 1%	1.0000	EA		B				
2	103400011	RES. 340 OHM MF 1/4W 1%	1.0000	EA		B				
2	103240011	RES. 324 OHM MF 1/4W 1%	1.0000	EA		B				
2	103404011	RES. 3.40M OHM MF 1/4W 1%	1.0000	EA		B				
1	NLR711-D	NEW 'N'# FOR LR711-D	1.0000	EA		M	P			
2	LR711-D	DET ASSY FOR SPL# R711	1.0000	EA		M	P			
3	LR711-D/01	SEE EXTENDED DESCRIPTION	3.0000	EA		B	P			
3	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B				
3	640552	FILTER, BANDPASS	1.0000	EA		B				
3	590792	DETECTOR INGAAS 1.6 MICRO	1.0000	EA		B				
3	LR711-D/02	SEE EXTENDED DESCRIPTION	5.0000	EA		B	P			
3	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B				
3	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B				
3	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B				
3	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B				
3	490042	SPRING DETECTOR RETAINER	1.0000	EA		B				
3	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B				
3	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B				
3	200204130	SCREW #2-56 X 1/8 BH SLOT	1.0000	EA		B				
3	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B				
3	3214G00X0	TUBING #14 PVC CLEAR	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	8.0000	EA		B	P			
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	8.0000	EA		B	P			
4	LDN200/03	SEE EXTENDED DESCRIPTION	5.0000	EA		B	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		

*OUT -
Included
IN new
C11201-
R713*

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
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	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	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	6.0000	EA		B 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		B 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		B P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	1.0000	EA		B 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		

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
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	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		B 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		B 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		B 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		B 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		

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	StartUse	End Use
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	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		B P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*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	19.8000	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	8.0000	EA		B				
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	3.0000	EA		B				
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		B				
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	3.0000	EA		B				
2	D11198/02	SEE EXTENDED DESCRIPTION	8.0000	EA		B				
2	D11198/03	SEE EXTENDED DESCRIPTION	8.0000	EA		B				
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-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				

BEFORE CHANGES

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*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	<i>NL2711-D</i> 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 SH	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		B P				
4	533082	TRAN. MJE800 NPN - DARLIN	1.0000	EA		B	3769	08-05-96		
4	LDN200/02	SEE EXTENDED DESCRIPTION	8.0000	EA		B P				
4	LDN200/03	SEE EXTENDED DESCRIPTION	5.0000	EA		B 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		

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	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	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		B 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		B 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		B P				
4	LDN100/02	SEE EXTENDED DESCRIPTION	1.0000	EA		B 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		

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*1

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	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		B 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		B 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		B 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		B 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		

BOM Number : DN#804 - IRCON INFRARAIL IRT

SO-LI: 70165*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	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		B P				
2	477182	LABEL-CE MARK (PRODUCTS)	1.0000	EA		B	3671	04-08-96		

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. 008241

IRCON GMBH
POSTFACH 1361, D-65221
GRILLPARZERS
TAUNUSSTEIN,
GERMANY

SHIPPING ADDRESS _____ TAX CODE _____

INTROPA
SPEDITIONSGESELLSCHAFT GM
FRANKFURT AIRPORT
ZUR VERGUEGUNG IRCONGMBH
FRANKFURT,
GERMANY

REQUEST DATE (MM-DD-YY) 12-31-99 PROMISE DATE (MM-DD-YY) 12-31-99

OUR ORDER NO. 72568 ORDER DATE (MM-DD-YY) 12-14-99

YOUR ORDER NO. D-6964

TERMS _____
0.00/0/60

F.O.B. _____
ORIGIN

CODE _____
1057 (100.00)

VIA _____
MSAS

SPECIAL SHIPPING INSTRUCTIONS _____

DNE99-99C

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#3443 <i>w.o.# 3766</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 52.8000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C DN_DNE31-13C	1	0.00	1616.35	1616.35
2	MOD-CHARGES	MODIFICATION OF PRODUCT	1	0.00	96.50	96.50
3	DN#3444 <i>w.o.# 3765</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE	1	0.00	1562.09	1562.09
GRAND TOTAL						

*Redo Special No R713 -
Temp 375-800C
D/50 at 30 meters
PAB 12/17*

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. 008241

IRCON GMBH
POSTFACH 1361, D-65221
GRILLPARZERS
TAUNUSSTEIN,
GERMANY

SHIPPING ADDRESS _____ TAX CODE _____

INTROPA
SPEDITIONSGESELLSCHAFT GM
FRANKFURT AIRPORT
ZUR VERGUEGUNG IRCONGMBH
FRANKFURT,
GERMANY

REQUEST DATE (MM-DD-YY) 12-31-99 PROMISE DATE (MM-DD-YY) 12-31-99

OUR ORDER NO. 72568 ORDER DATE (MM-DD-YY) 12-14-99

YOUR ORDER NO. D-6964

TERMS 0.00/0/60

F.O.B. ORIGIN

CODE 1057 (100.00)

VIA MSAS

SPECIAL SHIPPING INSTRUCTIONS _____

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
3	DN#3444 (CONTINUED)	Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - Std Cbl Lgth 4 meters. 12ft 13.2000 - Add Cbl Lgth in ft 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C DN_DNE31-13C				
4	MOD-CHARGES	MODIFICATION OF PRODUCT	1	0.00	96.50	96.50
5	AP-6	AIR PURGE/COOL ASSY AP-6 MINIRT	1	0.00	69.48	69.48
					GRAND TOTAL	

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. 008241

IRCON GMBH
POSTFACH 1361, D-65221
GRILLPARZERS
TAUNUSSTEIN,
GERMANY

SHIPPING ADDRESS _____ TAX CODE _____

INTROPA
SPEDITIONSGESELLSCHAFT GM
FRANKFURT AIRPORT
ZUR VERGUEGUNG IRCONGMBH
FRANKFURT,
GERMANY

REQUEST DATE (MM-DD-YY) 04-30-99 PROMISE DATE (MM-DD-YY) 04-30-99

OUR ORDER NO. 70165 ORDER DATE (MM-DD-YY) 04-01-99

YOUR ORDER NO. D-6660

TERMS _____
0.00/0/60

F.O.B. _____
ORIGIN

CODE _____
1057 (100.00)

VIA _____
MSAS

SPECIAL SHIPPING INSTRUCTIONS _____

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#804 <i>w.o. 1265</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE <i>ONE 99-99C Red Speed No R713</i> Consists of the following: 1.0000 - INFRARAIL 1.0000 - DN - E SERIES 1.0000 - SELECT METER 19.8000 - DN METRIC 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C <i>Temp range 375-800C</i> <i>D/50 Res</i> <i>RAB 4/8</i>	1	0.00	1449.02	1449.02
2	MOD-CHARGES	DN_DNE31-13C MODIFICATION OF PRODUCT	1	0.00	89.00	89.00
3	551212	POWER SUPPLY 230AC/24DC 1 RAIL MOUNT. MUST HAVE CE	1	0.00	156.64	156.64
					GRAND TOTAL	

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 60174 USA

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

SELECTED FROM TABLE(S) : TDMSH

LV SEQ#	COMPONENT NO	QUANTITY	UM	SYM/ITEM	DESCRIPTION	
01 0002	H-C11201-A	1.00			ASSEMBLY LABOR	
01 0010	K-C11201	1.00			(A1) SH FINAL ASSY	
01 0020	451322	1.00	EA	1	FIELD STOP 022DIA	
01 0030	990300005	1.00	EA	2	RETAINING RING 7/16 OD, 237ID VALDES TRUARC NO. 5005-43	
01 0040	431442	1.00	EA	3	DET. LOCATOR MODE	
01 0050	C11209	1.00		4	SH DETECTOR ASSEMBLY (E-SERIES)(INFRARAIL)	
01 0060	447352	1.00	EA	5	SENSOR, E-HEAD	D-DUG
01 0070	610432	1.00	EA	6	EYE LENS FOR A HEAD	
01 0080	990100004	1.00		7	EPOXY HB FULLER FE 7004 MIX 2:1 PART A/PART B AS REQUIRED	
01 0090	447372	1.00	EA	20	FIELD STOP, 312 DIA	E-HEAD SENSOR R-DUG
01 0100	447382	1.00	EA	21	FIELD STOP, 437 DIA	E-HEAD SENSOR B-DUG
01 0110	610402	1.00	EA	11	LENS PLANO CONVEX 30" F/L	
01 0120	431752	1.00	EA	10	O RING 13/16 X 1/16 TH 70 DR	
01 0130	447362	1.00	EA	12	LENS RING E-HEAD SENSOR	B-DUG
01 0140	200412440	4.00	EA	13	SCREW #4-40 X 3/8 FIL SLOT	STAINLESS STEEL
01 0150	220403200	4.00	EA	14	WASHER #4 LOCK SPLIT RING	STAINLESS STEEL
01 0160	454152	1.00	EA	15	SCREW, ADJUSTMENT,	TAMPERPROOF B-DUG
01 0170	433372	1.00	EA	22	O RING 5/32 X 7/32 X 1/16	WIDTH .75 DUREOMETER VITON
01 0180	220682200	1.00	EA	23	WASHER #6 LOCK EXT TOOTH	STAINLESS STEEL
01 0190	200606040	1.00	EA	24	SCREW #6-32 X 3/16 PH SLOT	STAINLESS STEEL
01 0210	443502	1.00	EA	18	RETAINING NUT	
01 0240	477142	1.00	EA	19	LABEL, SERIAL NUMBER, SENSOR	E SERIES, S SERIES
01 0250	474772	1.00	EA	25	LABEL GROUND WARNING	C-DUG
01 0260	T-C11201-1	1.00			DETERMINE IF CABLE IS REQUIRED (E-SERIES)	
01 0300	"MFC1	5.00				

*** THE FOLLOWING PARTS ARE TO BE INSTALLED AFTER CAL ***

END OF REPORT

01 0310	999900013	1.00	EA	17	CAP PLUG #5C-1-1/4	RED PLASTIC (POLYETHYLENE)
01 0320	990100028	1.00	AR	26	SEALANT RTV SILICONE BLACK	DOW CORNING 732 30Z TUBE
01 0330	999900014	1.00	EA	16	STEM BUMPER 3/8OD .275T	BLK RUBBER SPEC

LV SEQ#	COMPONENT NO	QUANTITY	UM	SYM/ITEM	DESCRIPTION
01 0010	431432	1.00	EA	1	DET. HOLDER MR20 SERIES
01 0015	640642	1.00	EA	14	FILTER, BANDPASS
01 0020	590672	1.00	EA	2	DET. SI VACTEC 21D959
01 0030	560372	3.00	IN	3	CABLE PVC 1 COND SHIELD 26 AWG 1 COND. 26AWG BRAIDED SHIELD
01 0040	312430100	1.00	EA	13	WIRE 24AWG BARE SOLID CUT (1) PIECE TO 1/2 INCHES LONG.
01 0060	430292	1.00	EA	6	CONN. GASKET 2000 SERIES
01 0070	575292	1.00	EA	7	CONN. CIRC 3 RECP 10SL-3
01 0080	490042	1.00	EA	8	SPRING DETECTOR RETAINER MOD2
01 0090	630092	1.00	EA	9	FOLDING MIRROR SH MROA SERIES
01 0100	490032	1.00	EA	10	SPRING FOLDING MIRROR MOD2
01 0110	200204130	1.00	EA	11	SCREW #2-56 X 1/8 BH SLOT
01 0120	990100016	1.00	AR	12	EPOXY HARDMAN #4091 3-5 MINS
01 0130	3214600X0	1.00	EA	15	TUBING #14 PVC CLEAR CUT (1) PIECE TO 3/16 INCHES LONG.

END OF REPORT

0.7 - 1.0 MICRON
VTB-5051 SELECT W/VR)/=2.3MV

ZINC PLATE

.056 ID .016 WALL

BOX MOUNT RECP NICKEL PLT

LV SEQ#	COMPONENT NO	QUANTITY	UM	SYM/ITEM	DESCRIPTION
01 0010	T-C11209-1	1.00	EA		SELECT DET ASSY. (E-SERIES)(INFRARAIL)
01 0020	S-C11209	1.00			SPL DETAILS FOR DET ASSY INFRARAIL

END OF REPORT

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LV SEQ# COMPONENT NO QUANTITY UM SYM/ITEM DESCRIPTION

01 0001 S-C11207 1.00 *** SELECT SPL DETAILS FOR S-SERIES

01 0010 *** BEG LDN106 1.00 EA *** LAST REV: 04/02/95 REV: B LAST ECO POST: 04/08/96

02 0010 590792 1.00 EA 1 DETECTOR INGAAS 1.6 MICRON SHUNT RES > 30 MEG C-DWG

02 0020 560372 6.00 IN 2 CABLE PVC 1 COND SHIELD 26 AWG 1 COND. 26AWG BRAIDED SHIELD

02 0050 990400001 1.00 EA BAG STATIC SHIELD 3X5 3M #2110 RECLOSEABLE
KEEP COMPLETED ASSY IN BAG FOR PROTECTION

02 0060 3214600X0 1.00 EA 3 TUBING #14 PVC CLEAR .066 ID .016 WALL
CUT (1) PIECE TO 3/16 INCHES LONG.

02 0070 320811401 1.00 EA 4 TUBING 1/8" SHRINKABLE BLACK EXTRA FLEXIBLE POLYOLEFIN
CUT (1) PIECE TO 3/4" LONG

01 0020 T-C11207-X 1.00 *** FLOW TAG TEXT FOR DETECTOR

***END OF REPORT**

INFRARAIL SPECIAL NUMBER R713 CONTINUED,

BILL OF MATERIAL

MODEL: DNE99-99C

MODULE M1 REFERENCE: DWG.NO.C11194

SYMBOL	PART NO.	DESCRIPTION		
R1	101074011	RESISTOR	1.07 Mohm	METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7 Kohm	METAL FILM 1/4W 1%
R54	101183011	RESISTOR	118 Kohm	METAL FILM 1/4W 1%
R45	101472011	RESISTOR	14.7 Kohm	METAL FILM 1/4W 1%
R55	105902011	RESISTOR	59.0 Kohm	METAL FILM 1/4W 1%
R46	101002011	RESISTOR	10.0 Kohm	METAL FILM 1/4W 1%
R56	109762011	RESISTOR	97.6 Kohm	METAL FILM 1/4W 1%
R47	106341011	RESISTOR	6.34 Kohm	METAL FILM 1/4W 1%
R57	101623011	RESISTOR	162 Kohm	METAL FILM 1/4W 1%
R48	103831011	RESISTOR	3.83 Kohm	METAL FILM 1/4W 1%
R58	102803011	RESISTOR	280 Kohm	METAL FILM 1/4W 1%
R49	102211011	RESISTOR	2.21 Kohm	METAL FILM 1/4W 1%
R59	104993011	RESISTOR	499 Kohm	METAL FILM 1/4W 1%
R50	101211011	RESISTOR	1.21 Kohm	METAL FILM 1/4W 1%
R60	109313011	RESISTOR	931 Kohm	METAL FILM 1/4W 1%
R51	106650011	RESISTOR	665 ohm	METAL FILM 1/4W 1%
R61	101744011	RESISTOR	1.74 Mohm	METAL FILM 1/4W 1%
R52	103400011	RESISTOR	340 ohm	METAL FILM 1/4W 1%
R53	103240011	RESISTOR	324 ohm	METAL FILM 1/4W 1%
R62	103404011	RESISTOR	3.40 Mohm	METAL FILM 1/4W 1%

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 03/20/99

OUR ORDER NO. ORDER DATE MONTH/DAY/YEAR
SA 067143/00 02/10/99

YOUR ORDER NO. 014181

TERMS NET 30
X OTHER NET 60

F.O.B. NILES, ILLINOIS
X

CODE 701 .00 03/19/99

VIA EMO TRANS PPD. COLL. X

SPECIAL SHIPPING INSTRUCTIONS

TEST CERTIFICATE REQUIRED

SOLD TO CUSTOMER NO. 004302-XX

ELECTROMEDICIONES KAINOS, SA
POLIGON INDUSTRIAL EST ENEAGIA
56 08940 CORNELLA DE LLOBREGAT
BARCELONA SPAIN

SHIPPING ADDRESS TAX CODE
NO TAX

TEISA CALBERSON AMBROSETI
POLIGONO INDUSTRIAL PALAU
C/O TEMPLE GUIDO 34 08184
PALAU DE PLEGAMANS BARCELONA

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 002905	EA		1280.00	1280.00
			CABLE(S) 4 MET. EA (4 MET. EA INCLUDED IN ABOVE)				
			PRODUCT MODIFICATION CHARGES ***** * * SPECIAL Z999			400.00	400.00
			***** !!!!!!!!!!!!WARNING!!!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **				
			SUB TOTALS				1680.00
			GRAND TOTAL				1680.00

Redo Special No R713 - Temp range 375-800C, 1/50 res. HBB 2/10/99

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

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 08/22/98

SOLD TO CUSTOMER NO.
00B241

OUR ORDER NO. ORDER DATE MONTH/DAY/YEAR
SA 066051/00 07/14/98

YOUR ORDER NO. DEMO

IRCON GMBH
POSTFACH 1361, D-65221
TAUNUSSTEIN, GRILLPARZERSTR 40
GERMANY

TERMS NET 30
X OTHER NET 60

F.O.B. X NILES, ILLINOIS

SHIPPING ADDRESS TAX CODE
NO TAX

CODE 726 .00

INTROFA
SPEDITIONSGESELLSCHAFT GMBH
FRANKFURT AIRPORT
ZUR VERFUEGUNG IRCONGMBH

VIA MSAS PPD. COLL. X

SPECIAL SHIPPING INSTRUCTIONS

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR XXXXXXXXXX	AMOUNT U.S. DOLLAR XXXXXXXXXX
01		3	INFRARAIL TEMPERATURE SYSTEM MODEL DNE99-99C SERIAL NBR 002596 THRU 002598 CABLE(S) 4 MET. EA (4 MET. EA INCLUDED IN ABOVE) ***** * SPECIAL R713 Z999 - * <i>Redo Spec R713 - Temp</i> * <i>range 375 to 800C</i> * <i>D/50 resolution</i> ***** DNE SER WITH SPL TEMP. RANGE 375 TO 800 DEG. C & D/50 MODEL: DNE99-99C	EA		1208.29	3624.87
			SUB TOTALS				3624.88
			GRAND TOTAL				3624.88

BILLINGS IN D.M.

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

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. 003148

CHASE BRASS & COPPER
P O BOX 152
MONTPELIER, OH 43543

REQUEST DATE (MM-DD-YY) 12-11-00 PROMISE DATE (MM-DD-YY) 12-11-00
OUR ORDER NO. 75790 ORDER DATE (MM-DD-YY) 11-13-00
YOUR ORDER NO. STCK-81954-00

SHIPPING ADDRESS _____ TAX CODE _____

CHASE BRASS & COPPER CO.
14212 CITY RD M-50
ATTN: STORES
MONTPELIER, OH 43543-0152

TERMS 0.00/0/30
F.O.B. ORIGIN
CODE 1109 (100.00)
VIA UPS
SPECIAL SHIPPING INSTRUCTIONS _____

DNE99-99C

LI	PART NO.	DESCRIPTION	QTY	DSCNT%	UNIT PRICE	AMOUNT
1	DN#7605 <i>W.O. #8150</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 <i>Mod - Guy Crp</i>	2	0.00	1220.00	2440.00
						<i>Redo Special No R713 Temp range 375-800C + 0/50 resolution RTB 11/14 \$350 ea</i>
GRAND TOTAL						USD2,440.00

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. 100262

IRCON SERVICE DEPT.
7300 N. NATCHEZ AVE.
NILES, IL 60714

SHIPPING ADDRESS _____ TAX CODE NO TAX

DO NOT PACK DELIVER TO
KEN CZYZEWICZ

REQUEST DATE (MM-DD-YY) 08-01-03 PROMISE DATE (MM-DD-YY) 08-01-03

OUR ORDER NO. 83157 ORDER DATE (MM-DD-YY) 07-24-03

YOUR ORDER NO. RMA-9599

TERMS 0.00/0/30

QUOTE # _____

F.O.B. ORIGIN

CODE 1001 (100.00)

VIA _____

SPECIAL SHIPPING INSTRUCTIONS _____

E99-99c

LI	PART NO.	DESCRIPTION	QTY	DSCNT %	UNIT PRICE	AMOUNT	
1	DN-HO#17515 <i>W.O. #14290</i>	DN_DNE31-13C IRCON INFRARAIL IRT SENSING HEAD ONLY Consists of the following: 1.0000 - INFRARAIL HEAD ONLY 1.0000 - DN - E SERIES 1.0000 - D/100 RESOLUTION (E) 1.0000 - 800-1300C DN_DNE31-13C	2	0.00	0.00	0.00	
<p><i>Redo Spec No R713</i> <i>Temperature 375-800</i> <i>D/100 resolution</i> <i>AB</i> <i>7/24</i></p>							
THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE						GRAND TOTAL	USD0.00

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: DATE 31-13C

➤ Standard Product List Price: 900

➤ The product change requested would be: Revs R713

375-8009, 8/50 ***Sales will attach specifics to this form.***

➤ The market is willing to pay: 1100 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 7/25/03

➤ Sales can now quote this project for \$ _____ per unit.

W.O.# 14290

_____ 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. # 14290

Number :DN-HO#17515 - IRCON INFRARAIL IRT SO-LI: 83157*1

Level	Part Number	Description	Quantity	UM	Alt	MB	X	ECO No.	ECO Date	Start Use	End Use
1	DN1DNE	DN PRICES	1.0000	EA		M	P				
1	C11201-R713	SENSING HEAD FINAL ASSY	1.0000	EA		M	P				
2	451323	FIELD STOP .044DIA	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-R707	SH DETECTOR ASSEMBLY E HD	1.0000	EA		M	P	3709	05-17-1996		
3	LR721-D	DET ASSY FOR SPL# R721	1.0000	EA		M	P	3770	08-21-1996		
4	LR721-D/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B					
4	640552	FILTER, BANDPASS	1.0000	EA		B					
4	590942	DETECTOR InGaAs 1.6u	1.0000	EA		B					
4	LR721-D/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M	P				
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B					
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B					
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B					
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B					
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B					
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B					
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B					
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B					
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B					
4	3214G00X0	TUBING #14 PVC CLEAR	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	447382	FIELD STOP, .437 DIA	1.0000	EA		B		3709	05-17-1996		
2	610402	LENS PLANO CONVEX 30" 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		

R713
(Sensor 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. 100426

IRCON B.V.
DATABANKWEG 6 C
3821 AL AMERSFOORT

THE NETHERLANDS

SHIPPING ADDRESS _____ TAX CODE NO TAX

IRCON B.V.
DATABANKWEG 6 C
3821 AL AMERSFOORT

THE NETHERLANDS

REQUEST DATE (MM-DD-YY) 01-09-04 PROMISE DATE (MM-DD-YY) 01-09-04

OUR ORDER NO. 84251 ORDER DATE (MM-DD-YY) 12-18-03

YOUR ORDER NO. 200340617

TERMS 0.00/0/180

QUOTE # _____

F.O.B. ORIGIN

CODE 1001 (100.00)

VIA EXEL

SPECIAL SHIPPING INSTRUCTIONS REF: 4700021297

DNE90-99C

LI	PART NO.	DESCRIPTION	QTY	DSCNT %	UNIT PRICE	AMOUNT
1	DN#19306 <i>W.O.#15197</i>	DN_DNE31-13C IRCON INFRARAIL IRT SYSTEM-COMPLETE <i>Temperature</i> 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) <i>D/50 Resolution</i> 1.0000 - 800-1300C DN_DNE31-13C	1	0.00	671.31	671.31 <i>R713</i>
2	MOD-CHARGES	MODIFICATION OF PRODUCT	1	0.00	83.91	83.91 <i>PB</i> <i>12/18</i>
					GRAND TOTAL	ECU755.22

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.



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: DNE31-13C
- Standard Product List Price: \$800
- The product change requested would be: Reels R 713
375 to 800c, 0/50 Sales will attach specifics to this form.
- The market is willing to pay: \$900 for this product (total including standard price).
- What is engineering's expected time investment and cost: 1 hour Man Days
\$100⁰⁰
- 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 12/18/03

➤ Sales can now quote this project for \$ _____ per unit. W.O.# 15197

_____ lead time.

_____ Add to standard product list in literature (Maxine)

_____ Add to price list (Vern)

cc/ Greg P, Paul V, Regional Sales Staff Globally



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: DNE31-31C
- Standard Product List Price: \$ 800
- The product change requested would be: Reels R713
- 375-800C, D150 *Sales will attach specifics to this form.*
- The market is willing to pay 900 for this product (total including standard price).
- What is engineering's expected time investment and cost: 1 hour Man Days
\$ 10000
- 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 4/12/2004
- Sales can now quote this project for \$ _____ per unit. W.O. #15963
_____ lead time.

_____ Add to standard product list in literature (Maxine)

_____ Add to price list (Vern)

cc/ Greg P, Paul V, Regional Sales Staff Globally

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. 100426

IRCON B.V.
DATABANKWEG 6 C
3821 AL AMERSFOORT
THE NETHERLANDS

SHIPPING ADDRESS _____ TAX CODE NO TAX

IRCON B.V.
DATABANKWEG 6 C
3821 AL AMERSFOORT
THE NETHERLANDS

DN#20557-99c

REQUEST DATE (MM-DD-YY) 04-16-04 PROMISE DATE (MM-DD-YY) 04-16-04

OUR ORDER NO. 85075 ORDER DATE (MM-DD-YY) 04-05-04

YOUR ORDER NO. 200440152

TERMS 0.00/0/180

QUOTE # _____

F.O.B. ORIGIN

CODE 1001 (100.00)

VIA EXEL

SPECIAL SHIPPING INSTRUCTIONS _____

LI	PART NO.	DESCRIPTION	QTY	DSCNT %	UNIT PRICE	AMOUNT
1	DN#20557 <i>W.O.#15963</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	656.71	656.71
2	MOD-CHARGES	MODIFICATION OF PRODUCT	1	0.00	82.09	82.09
					GRAND TOTAL	ECU738.80

*Reals Spec. R713
Temp 375 to 800C
D/50 resolution*

2/15

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.# 15963

Number :DN#20557 - IRCON INFRARAIL IRT SO-LI: 85075*1

Level	Part Number	Description	Quantity	UM	Alt	MB	X	ECO No.	ECO Date	Start Use	End Use
	DNODNE	DN PRICES	1.0000	EA							
1	C11201-R713	SENSING HEAD FINAL ASSY	1.0000	EA							
2	451323	FIELD STOP .044DIA	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-R707	SH DETECTOR ASSEMBLY E HD	1.0000	EA		M	P	3709	05-17-1996		
3	LR721-D	DET ASSY FOR SPL# R721	1.0000	EA		M	P	3770	08-21-1996		
4	LR721-D/01	SEE EXTENDED DESCRIPTION	0.0000	EA			M	P			
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B					
4	640552	FILTER, BANDPASS	1.0000	EA		B					
4	590942	DETECTOR InGaAs 1.6u	1.0000	EA		B					
4	LR721-D/02	SEE EXTENDED DESCRIPTION	0.0000	EA			M	P			
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B					
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B					
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B					
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B					
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B					
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B					
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B					
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B					
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B					
4	3214G00X0	TUBING #14 PVC CLEAR	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	447382	FIELD STOP, .437 DIA	1.0000	EA		B		3709	05-17-1996		
2	610402	LENS PLANO CONVEX 30" 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	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	04-02-1997		
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-R713	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M	P				
2	101074011	RES. 1.07M OHM MF 1/4W 1%	1.0000	EA		B					
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B					
2	101183011	RES. 118K OHM MF 1/4W 1%	1.0000	EA		B					
2	101472011	RES. 14.7K OHM MF 1/4W 1%	1.0000	EA		B					
2	105902011	RES. 59.0K OHM MF 1/4W 1%	1.0000	EA		B					
2	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B					

R713

Number :DN#20557 - IRCON INFRARAIL IRT SO-LI: 85075*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
2	109762011	RES. 97.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	106341011	RES. 6.34K OHM MF 1/4W 1%	1.0000	EA		B				
2	101623011	RES. 162K OHM MF 1/4W 1%	1.0000	EA		B				
2	103831011	RES. 3.83K OHM MF 1/4W 1%	1.0000	EA		B				
2	102803011	RES. 280K OHM MF 1/4W 1%	1.0000	EA		B				
2	102211011	RES. 2.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B				
2	101211011	RES. 1.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	109313011	RES. 931K OHM MF 1/4W 1%	1.0000	EA		B				
2	106650011	RES. 665 OHM MF 1/4W 1%	1.0000	EA		B				
2	101744011	RES. 1.74M OHM MF 1/4W 1%	1.0000	EA		B				
2	103400011	RES. 340 OHM MF 1/4W 1%	1.0000	EA		B				
2	103240011	RES. 324 OHM MF 1/4W 1%	1.0000	EA		B				
2	103404011	RES. 3.40M 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		

Number :DN#20557 - IRCON INFRARAIL IRT SO-LI: 85075*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	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		

Number :DN#20557 - IRCON INFRARAIL IRT SO-LI: 85075*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: 12 AUG 2005

REV: DATE:

Customer No. 100426
SOLD TO

SHIP TO

IRCON B.V.
 DATABANKWEG 6 C
 3821 AL AMERSFOORT
 THE NETHERLANDS

IRCON B.V.
 DATABANKWEG 6 C
 3821 AL AMERSFOORT
 THE NETHERLANDS

SPECIAL SHIPPING INSTRUCTIONS
 REF: 4700027112/12.08.2005

OUR ORDER No.		YOUR PO No.		F.O.B.		TAX	
88908		200540412		ORIGIN		Resale	
SHIP VIA		TERMS		DATE REQUESTED	SALES REPRESENTATIVE		
EXEL		0.00/0/180		08-26-05	1001 (100.00)		
LI	PART NO.	PRODUCT/DESCRIPTION	QTY	UNIT PRICE	DISC	NET PRICE	EXTENSION
1	DN#26453 <i>w.o.# 19414</i>	<i>DNE 99-990</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 4 meters. 12ft 1.0000 - D/100 -RESOLUTION (E) 1.0000 - 800-1300C	1	662.02	0.0	662.02	662.02
2	MOD-CHARGES	MODIFICATION OF PRODUCT	1	82.75	0.0	82.75	82.75
THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE					GRAND TOTAL		ECU744.77

Reds Spec No R 713
Temp range 375-800c
D/50 resolution
WB 8/14

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: DNE31-13C
 - Standard Product List Price: \$ 900
 - The product change requested would be: Reps R713
375-800C, 0/50 *Sales will attach specifics to this form.*
 - The market is willing to pay: \$ 1000 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 8/16/05
W.O. # 19414
 - 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

W.O.# 19414

Number :DN#26453 - IRCON INFRARAIL IRT SO-LI: 88908*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	C11201-R713	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451323	FIELD STOP .044DIA	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-R707	SH DETECTOR ASSEMBLY E HD	1.0000	EA		M P	3709	05-17-1996		
3	LR721-D	DET ASSY FOR SPL# R721	1.0000	EA		M P	3770	08-21-1996		
4	LR721-D/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B				
4	640552	FILTER, BANDPASS	1.0000	EA		B				
4	590942	DETECTOR InGaAs 1.6u	1.0000	EA		B				
4	LR721-D/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B				
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B				
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B				
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B				
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B				
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B				
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B				
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B				
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B				
4	3214G00X0	TUBING #14 PVC CLEAR	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	447382	FIELD STOP, .437 DIA	1.0000	EA		B	3709	05-17-1996		
2	610402	LENS PLANO CONVEX 30" 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	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	04-02-1997		
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-R713	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	101074011	RES. 1.07M OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101183011	RES. 118K OHM MF 1/4W 1%	1.0000	EA		B				
2	101472011	RES. 14.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	105902011	RES. 59.0K OHM MF 1/4W 1%	1.0000	EA		B				
2	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B				

OK

R713

Number :DN#26453 - IRCON INFRARAIL IRT SO-LI: 88908*1

Level	Part Number	Description	Quantity	UM	Alt	MB X	ECO No.	ECO Date	Start Use	End Use
2	109762011	RES. 97.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	106341011	RES. 6.34K OHM MF 1/4W 1%	1.0000	EA		B				
2	101623011	RES. 162K OHM MF 1/4W 1%	1.0000	EA		B				
2	103831011	RES. 3.83K OHM MF 1/4W 1%	1.0000	EA		B				
2	102803011	RES. 280K OHM MF 1/4W 1%	1.0000	EA		B				
2	102211011	RES. 2.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B				
2	101211011	RES. 1.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	109313011	RES. 931K OHM MF 1/4W 1%	1.0000	EA		B				
2	106650011	RES. 665 OHM MF 1/4W 1%	1.0000	EA		B				
2	101744011	RES. 1.74M OHM MF 1/4W 1%	1.0000	EA		B				
2	103400011	RES. 340 OHM MF 1/4W 1%	1.0000	EA		B				
2	103240011	RES. 324 OHM MF 1/4W 1%	1.0000	EA		B				
2	103404011	RES. 3.40M 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		

Number :DN#26453 - IRCON INFRARAIL IRT SO-LI: 88908*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							
4	LDN100/02	SEE EXTENDED DESCRIPTION	0.0000	EA							
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	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		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		

Number :DN#26453 - IRCON INFRARAIL IRT SO-LI: 88908*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: 21 MAR 2006
 REV: DATE:

Customer No. 100426
 SOLD TO

SHIP TO

ELECTROMEDICIONES KAINOS
 POLIGONO INDUSTRIAL EST
 ENERGIA 56
 CORNELLA DE LLOBREGAT
 BARCELONA, 08940
 SPAIN

IRCON B.V.
 DATABANKWEG 6 C
 3821 AL AMERSFOORT
 THE NETHERLANDS

SPECIAL SHIPPING INSTRUCTIONS

OUR ORDER No.		YOUR PO No.		F.O.B.		TAX	
90660		1246		ORIGIN		Resale	
SHIP VIA		TERMS		DATE REQUESTED	SALES REPRESENTATIVE		
UPS SCS		0.00/0/180		04-28-06	1001 (100.00)		
LI	PART NO.	PRODUCT/DESCRIPTION	QTY	UNIT PRICE	DISC	NET PRICE	EXTENSION
1	DN#29233 <i>W.O.# 21119</i>	DN_DNE31-13C DN#29233 <i>DNE99-99C</i> 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	1	674.68	0.0	674.68	674.68
2	<i>Mod chg</i>		1	\$100			<i>3/21</i>
THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE						GRAND TOTAL	ECU674.68

*Reels Spec No R 713
 Temp range 375-800C
 0/50 resolution
 JMB*

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

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

4/6/06
SO 90660

Section 1 — GENERAL INFORMATION

1.5 PRODUCT MODIFICATION

IRCON InfraRail Model DNE99-99C is modified for a special temperature range of 375 to 800°C with a special optical resolution of D/50 at a fixed focus of 30 inches. The wavelength specified is 1.49 - 1.6 μm .

RESTRICTIONS: Sensing head is restricted to ambient temperatures of 0° to 150°F (-17° to 65°C) and an emissivity setting of 0.3 for the first 25°C of the temperature span.

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. R713.

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

W.O.# 21119

Number :DN#29233 - IRCON INFRARAIL IRT SO-LI: 90660*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	C11201-R713	SENSING HEAD FINAL ASSY	1.0000	EA		M P				
2	451323	FIELD STOP .044DIA	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-R707	SH DETECTOR ASSEMBLY E HD	1.0000	EA		M P	3709	05-17-1996		
3	LR721-D	DET ASSY FOR SPL# R721	1.0000	EA		M P	3770	08-21-1996		
4	LR721-D/01	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	431432	DET. HOLDER MR20 SERIES	1.0000	EA		B				
4	640552	FILTER, BANDPASS	1.0000	EA		B				
4	590942	DETECTOR InGaAs 1.6u	1.0000	EA		B				
4	LR721-D/02	SEE EXTENDED DESCRIPTION	0.0000	EA		M P				
4	560372	CABLE PVC 1 COND SHIELD 2	3.0000	IN		B				
4	312430100	WIRE 24AWG BARE SOLID	1.0000	IN		B				
4	430292	CONN. GASKET 2000 SERIES	1.0000	EA		B				
4	575892	CONN. CIRC 3 RECPT 10SL-3	1.0000	EA		B				
4	490042	SPRING DETECTOR RETAINER	1.0000	EA		B				
4	630092	FOLDING MIRROR SH MROA SE	1.0000	EA		B				
4	490032	SPRING FOLDING MIRROR MOD	1.0000	EA		B				
4	200204130	SCREW #2-56 X 1/8 PH SLOT	1.0000	EA		B				
4	990100016	EPOXY HARDMAN #4001 3-5 M	1.0000	EA		B				
4	3214000X0	TUBING #14 PVC CLEAR	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	447382	FIELD STOP, .437 DIA	1.0000	EA		B	3709	05-17-1996		
2	610402	LENS PLANO CONVEX 30" 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	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	04-02-1997		
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-R713	MODULE ASSEMBLY - M1 - (I	1.0000	EA		M P				
2	101074011	RES. 1.07M OHM MF 1/4W 1%	1.0000	EA		B				
2	101872011	RES. 18.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	101183011	RES. 118K OHM MF 1/4W 1%	1.0000	EA		B				
2	101472011	RES. 14.7K OHM MF 1/4W 1%	1.0000	EA		B				
2	105902011	RES. 59.0K OHM MF 1/4W 1%	1.0000	EA		B				
2	101002011	RES. 10.0K OHM MF 1/4W 1%	1.0000	EA		B				

OK
AD

R713

Number :DN#29233 - IRCON INFRARAIL IRT SO-LI: 90660*1

Level	Part Number	Description	Quantity	UM	Alt.	MB X	ECO No.	ECO Date	Start Use	End Use
2	109762011	RES. 97.6K OHM MF 1/4W 1%	1.0000	EA		B				
2	106341011	RES. 6.34K OHM MF 1/4W 1%	1.0000	EA		B				
2	101623011	RES. 162K OHM MF 1/4W 1%	1.0000	EA		B				
2	103831011	RES. 3.83K OHM MF 1/4W 1%	1.0000	EA		B				
2	102803011	RES. 280K OHM MF 1/4W 1%	1.0000	EA		B				
2	102211011	RES. 2.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	104993011	RES. 499K OHM MF 1/4W 1%	1.0000	EA		B				
2	101211011	RES. 1.21K OHM MF 1/4W 1%	1.0000	EA		B				
2	109313011	RES. 931K OHM MF 1/4W 1%	1.0000	EA		B				
2	106650011	RES. 665 OHM MF 1/4W 1%	1.0000	EA		B				
2	101744011	RES. 1.74M OHM MF 1/4W 1%	1.0000	EA		B				
2	103400011	RES. 340 OHM MF 1/4W 1%	1.0000	EA		B				
2	103240011	RES. 324 OHM MF 1/4W 1%	1.0000	EA		B				
2	103404011	RES. 3.40M 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		

Number :DN#29233 - IRCON INFRARAIL IRT SO-LI: 90660*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	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		

Number :DN#29233 - IRCON INFRARAIL IRT SO-LI: 90660*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: 21 MAR 2006
 REV: DATE:

Customer No. 100426
 SOLD TO

SHIP TO

ELECTROMEDICIONES KAINOS
 POLIGONO INDUSTRIAL EST
 ENERGIA 56
 CORNELLA DE LLOBREGAT
 BARCELONA, 08940
 SPAIN

IRCON B.V.
 DATABANKWEG 6 C
 3821 AL AMERSFOORT
 THE NETHERLANDS

SPECIAL SHIPPING INSTRUCTIONS

OUR ORDER No.		YOUR PO No.		F.O.B.		TAX	
90660		1246		ORIGIN		Resale	
SHIP VIA		TERMS		DATE REQUESTED	SALES REPRESENTATIVE		
UPS SCS		0.00/0/180		04-28-06	1001 (100.00)		
LI	PART NO.	PRODUCT/DESCRIPTION	QTY	UNIT PRICE	DISC	NET PRICE	EXTENSION
1	DN#29233 <i>W.O.# 21119</i>	DN_DNE31-13C <i>DNE99-99C</i> 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	1	674.68	0.0	674.68	674.68
2	<i>Mod Chg</i>		1	\$100			<i>3/21</i>

*Reds Spec No R713
 Temp range 375-800C
 2/50 resolution
 JTB
 3/21*

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

GRAND TOTAL

ECU674.68

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: DNE31-13C
- Standard Product List Price: \$ 800
- The product change requested would be: Reels R713 - 275-800C
0/50 resolution *Sales will attach specifics to this form.*
- The market is willing to pay: 900 for this product (total including standard price).
- What is engineering's expected time investment and cost: 1 HOUR Man Days
\$ 100⁰⁰
- 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 3/29/06
- Sales can now quote this project for \$ per unit. W.O.# 21119
 lead time.

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