

APPROVAL SHEET

PCB ANTENNA

2.4\ 5.x GHz Band Working Frequency

Halogens Free Product

P/N: RFPCA351455EMLB901

Customer : 研華股份有限公司

Customer 's Part No. : **1751000161-01**

Approval No. : _____

Issue Date : _____

*Contents in this sheet are subject to change without prior notice.

品名：RFPCA351455EMLB901

History List

[illegible]

1.Explanation of part number :

RF	PCA	3514	55	E	M	L	B	9	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 3514 Length 35.10mm, Width 14.00mm	2 digits for cable length e.g.:55 Length 55.0cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 6: 6GHz 5: 5GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:∅ 0.81 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

2.Electrical Specification :

Item	Specification
Working Frequency Range	2400 ~ 2500 / 5150 ~ 5850 MHz
Return Loss	-10 dB
Peak Gain	2.17 dBi(@2400 ~ 2500 MHz) 3.77 dBi(@5150 ~ 5850 MHz)
VSWR	2 max.
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω
Operation Temperature	-20℃ ~ +65℃

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 詹惠雯

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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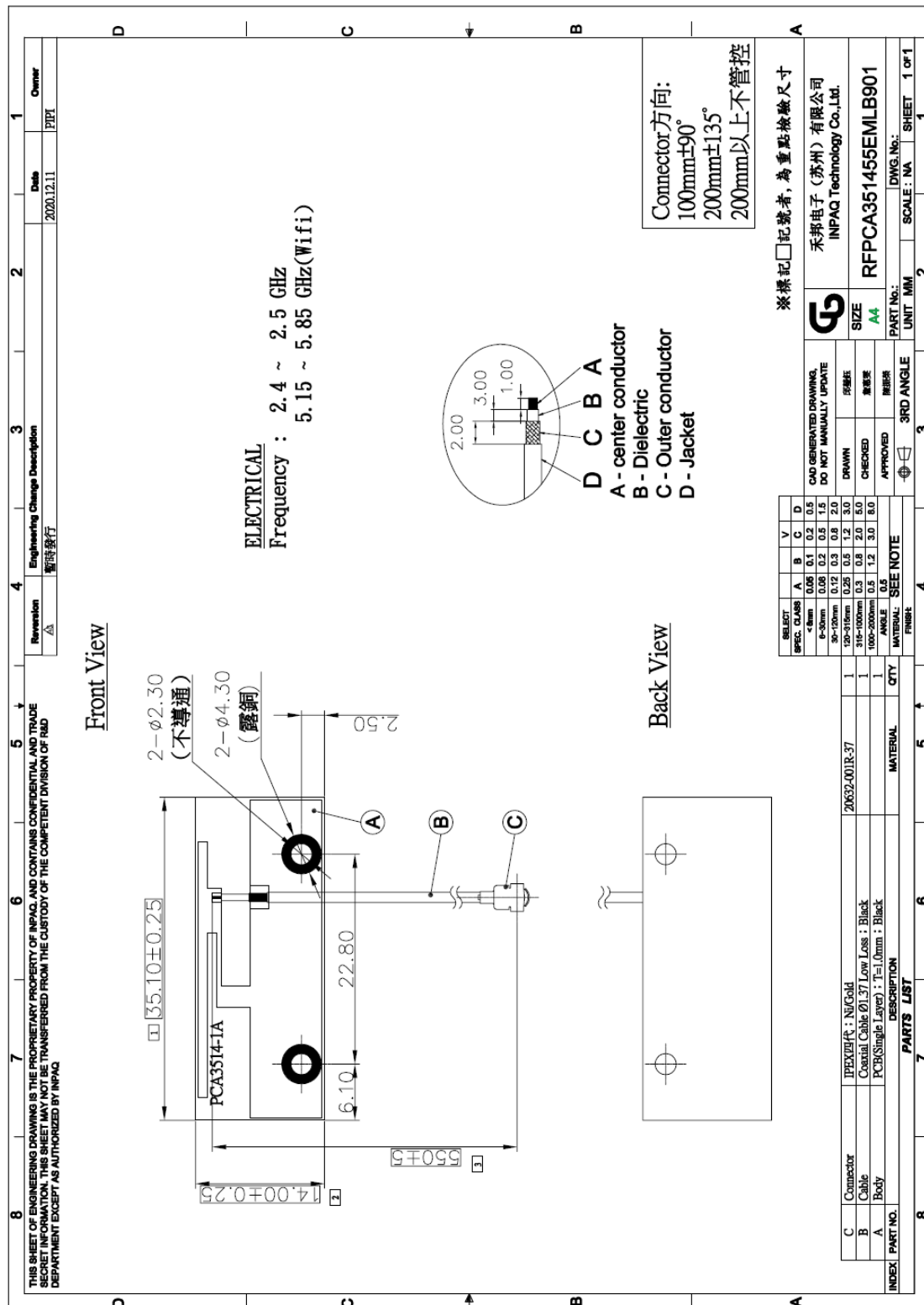
TITLE : RFPCA351455EMLB901

DOCUMENT NO.

000803511492

SPEC REV.
A0

3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :
X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A



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UNIT : mm

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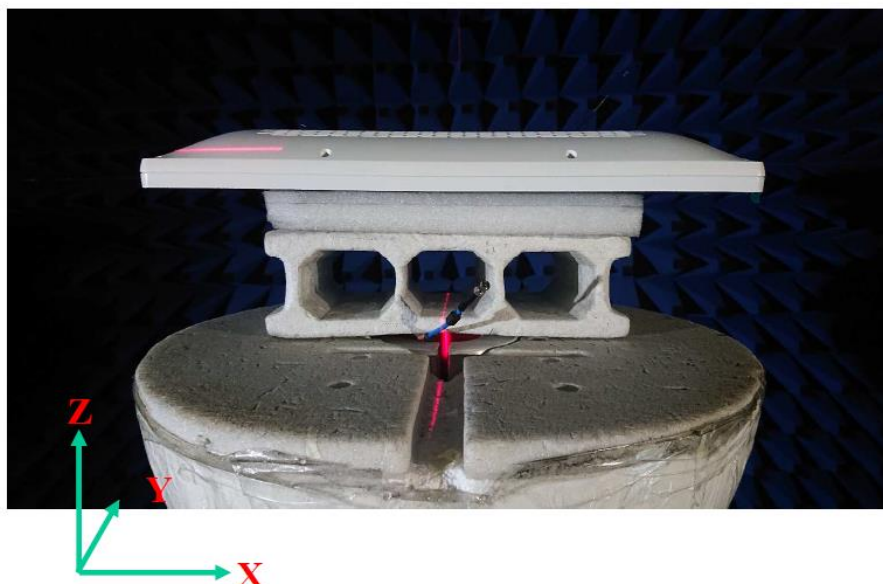
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4. Performance Report :

Test Report

■ Experimental Setup

Experimental Setup

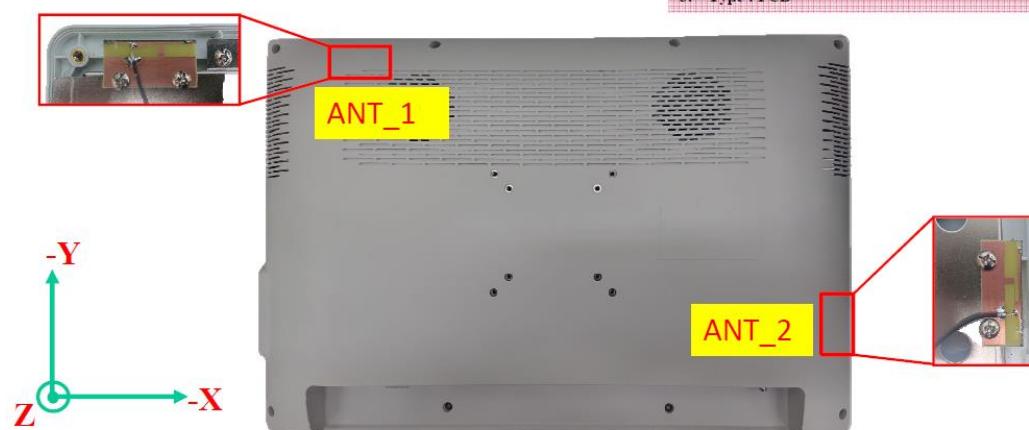


ANT_1

1. Operating Freq. :
2450 / 5550 MHz
2. Dimensions : 35.1x 17x 1.0mm
3. Type : PCB

ANT_2

1. Operating Freq. :
2450 / 5550 MHz
2. Dimensions : 35.1 x 14x 1.0mm
3. Type : PCB



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X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

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UNIT : mm

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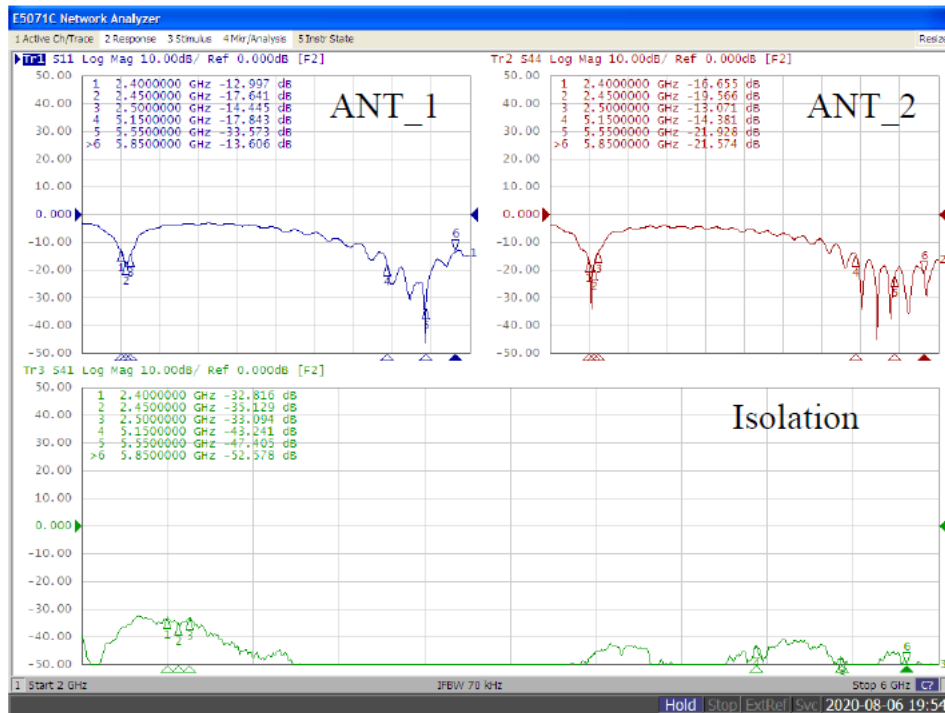
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ELECTRICAL CHARACTERISTICS

Return Loss & Isolation



UNLESS OTHER SPECIFIED TOLERANCES ON :
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 ANGLES = N/A HOLEDIA = N/A



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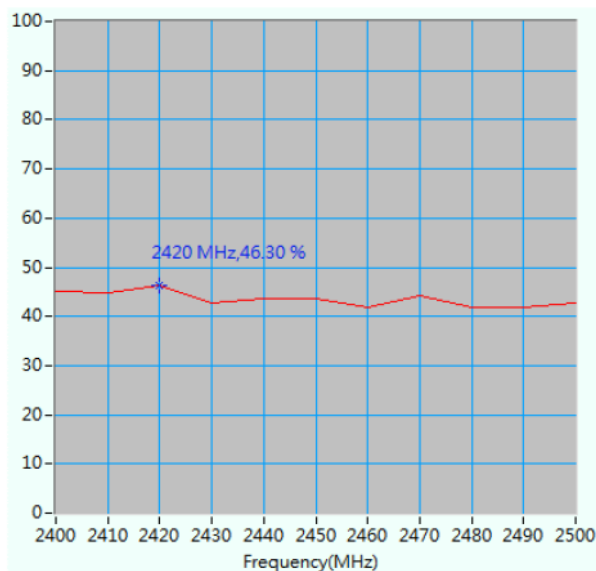
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SPEC REV.
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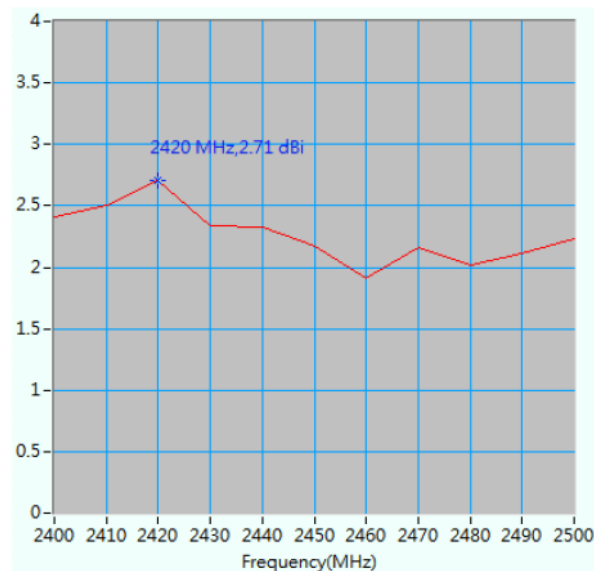
Antenna Efficiency & Peak Gain

ANT_2

2G

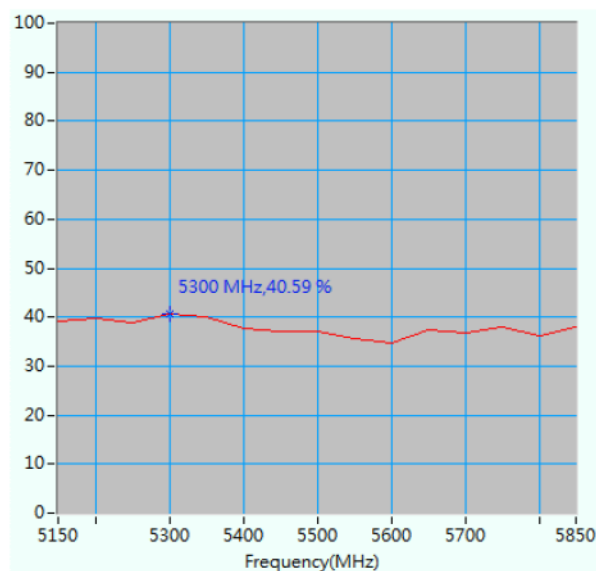


Maximum Efficiency at 2420 MHz : 46.3 %

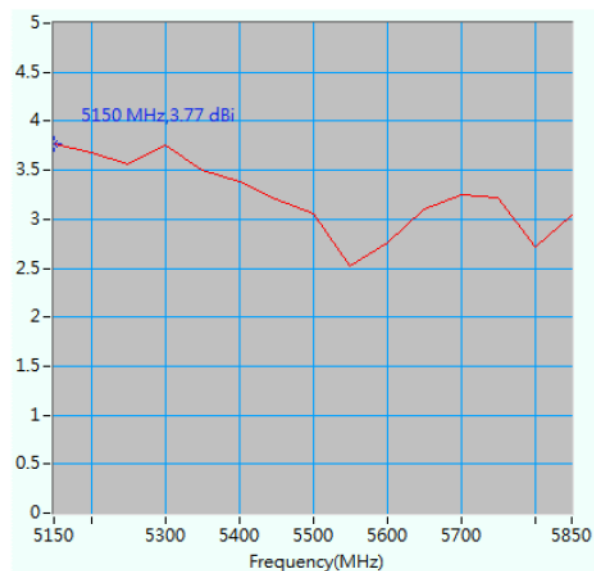


Maximum Peak Gain at 2420 MHz : 2.71 dBi

5G



Maximum Efficiency at 5300 MHz : 40.59 %



Maximum Peak Gain at 5150 MHz : 3.77 dBi

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 ANGLES = N/A HOLEDIA = N/A



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Antenna Efficiency and Peak Gain

	ANT_1		ANT_2	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	Efficiency (%)	Peak gain (dBi)
2400	44.55	1.57	45.08	2.41
2450	54.07	2.31	43.53	2.17
2500	52.93	2.60	42.87	2.23
	ANT_1		ANT_2	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	Efficiency (%)	Peak gain (dBi)
5150	36.19	2.57	39.19	3.77
5200	37.67	2.40	39.81	3.68
5500	37.22	2.37	35.74	2.52
5850	34.52	3.40	38.06	3.04

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RADIATION PATTERN

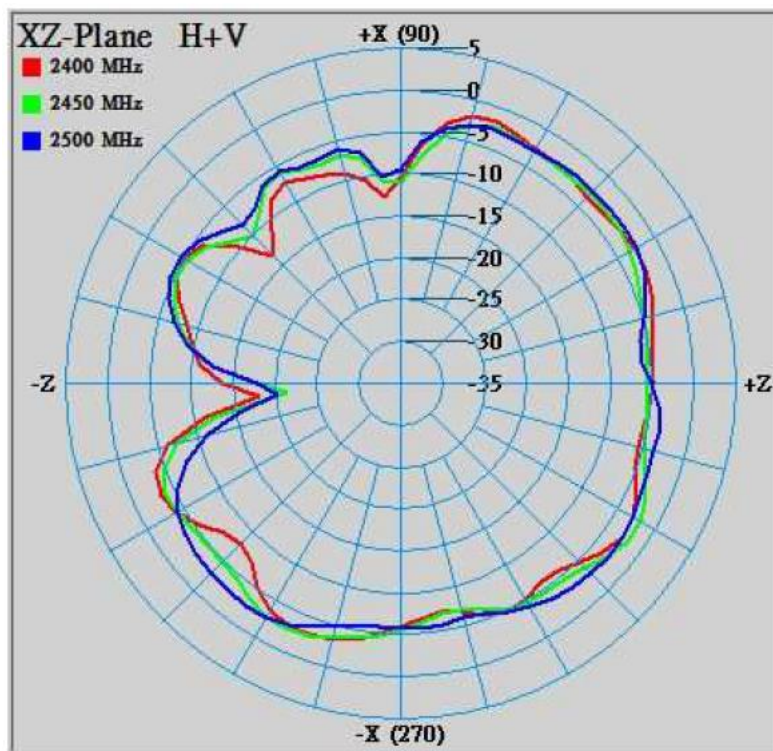
ANT_2

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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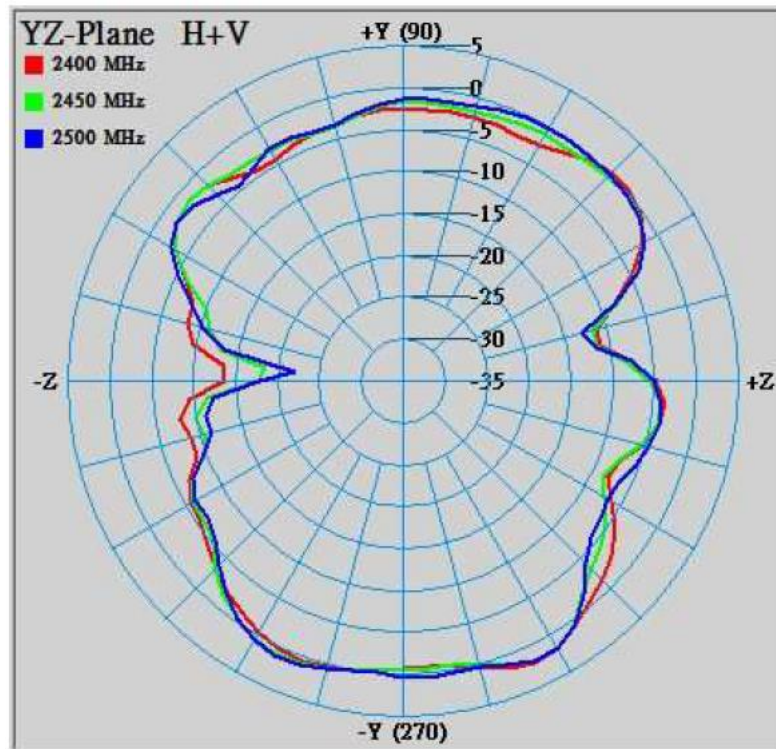
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SPEC REV.
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Y-Z Plane

Phi=90.00deg

Gain . dB



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 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



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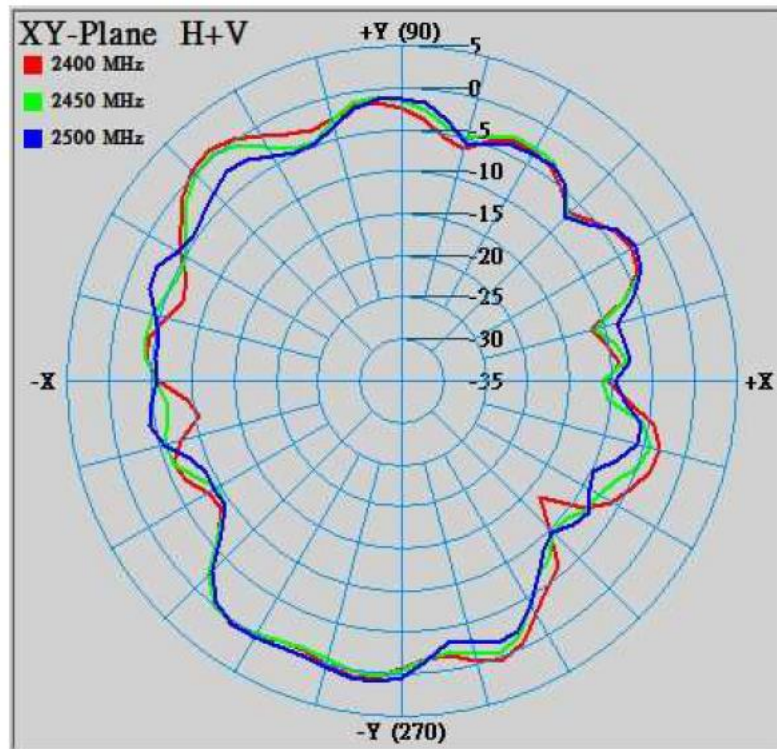
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-1.67	-5.17	2.11	-2.57	0.90	-3.18
2450	-1.95	-4.98	2.04	-2.52	0.42	-3.39
2500	-2.40	-4.67	2.02	-2.34	1.09	-3.58

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 ANGLES = N/A HOLEDIA = N/A



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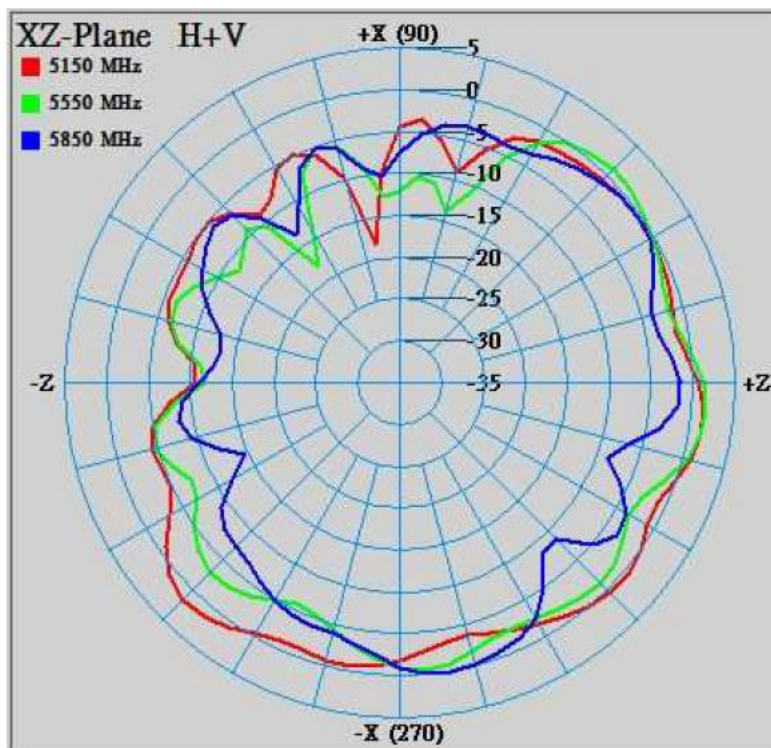
ANT_2

5150~5850 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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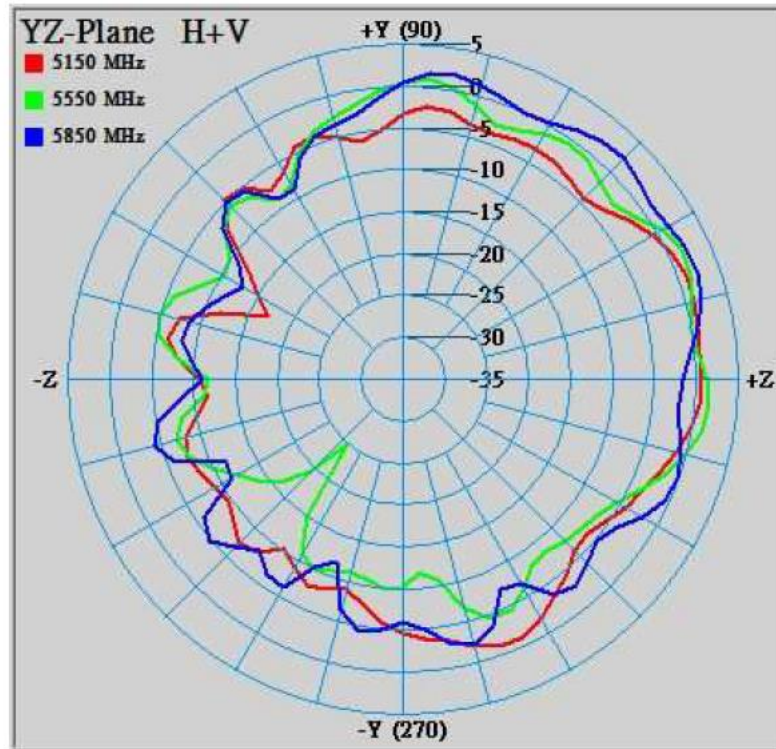
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SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
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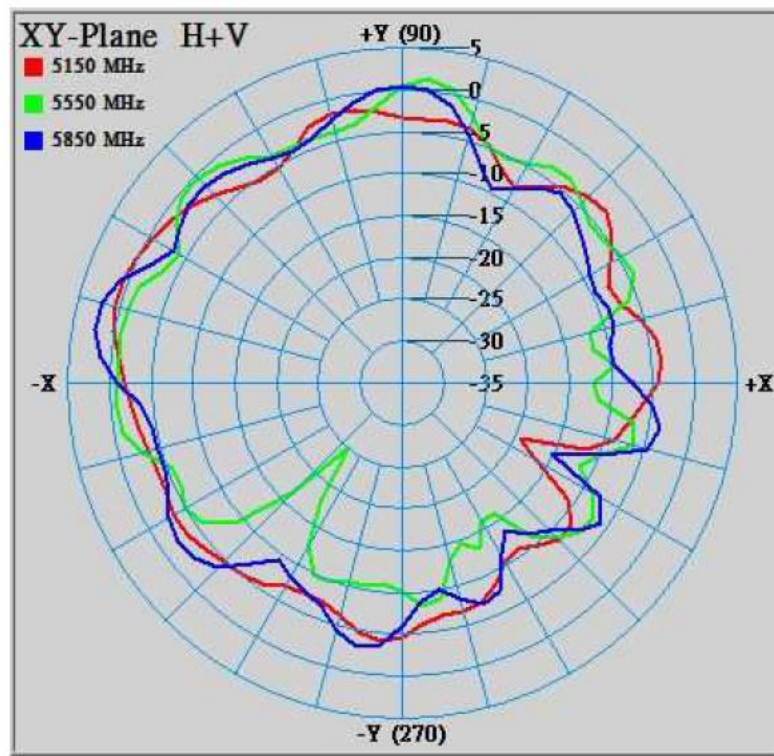
000803511492

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	1.58	-2.07	1.00	-3.89	0.58	-4.24
5550	1.66	-3.11	1.76	-3.50	1.41	-4.54
5850	0.12	-4.32	2.38	-2.34	2.33	-3.95

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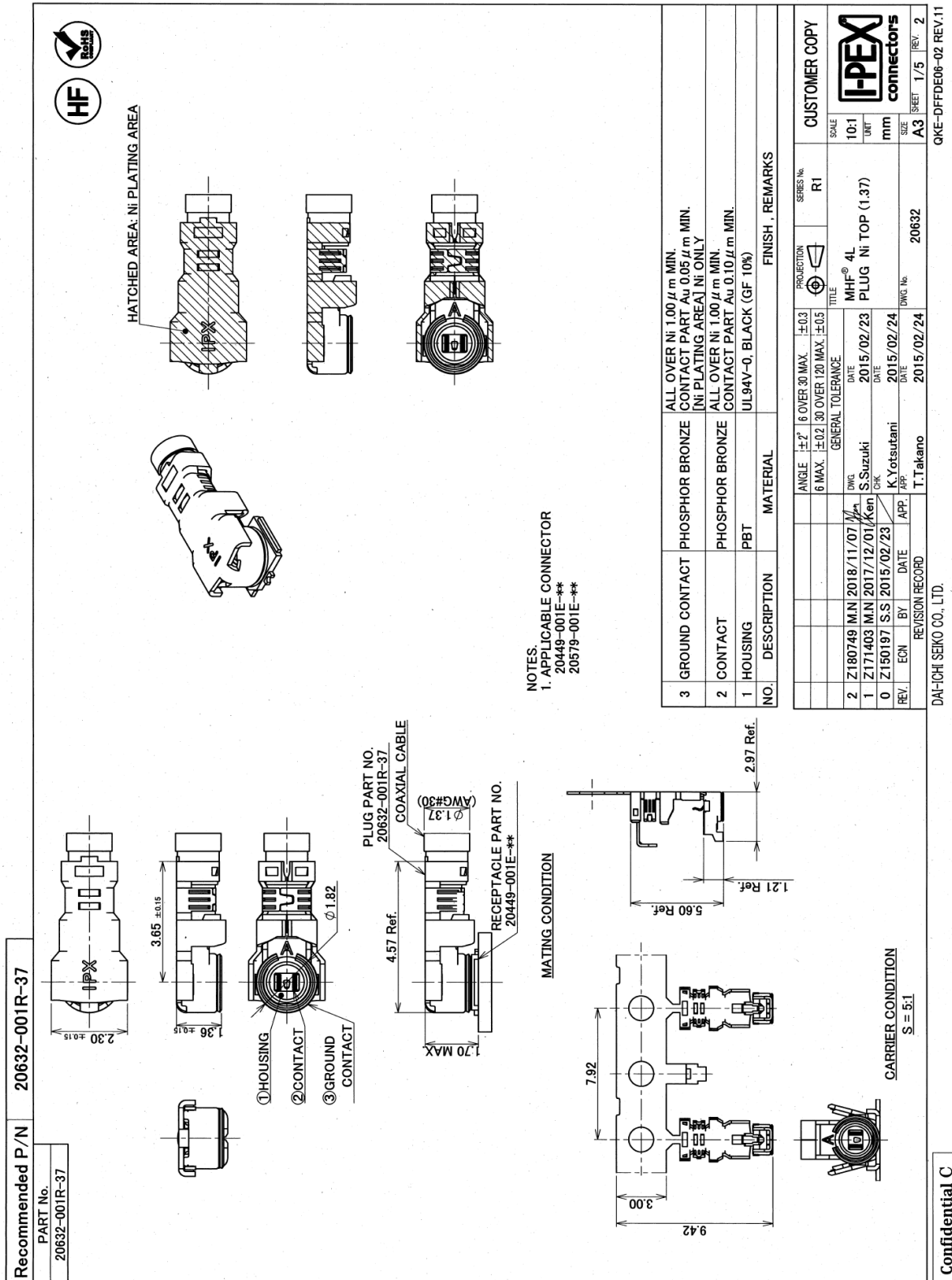
TITLE : RFPCA351455EMLB901

DOCUMENT
NO.

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SPEC REV.
A0

Connector Specification



ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR	
PART No.	20449-001E-**-
OPERATING VOLTAGE	60 V AC (R.M.S)
OPERATING FREQUENCY	DC~12 GHz
OPERATING TEMPERATURE	233~363K (-40°C~+90°C)
VSWR	1.3 MAX. AT DC~3 GHz, 1.4 MAX. AT 3~6 GHz, 1.5 MAX. AT 6~9 GHz, 1.6 MAX. AT 9~12 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: $\angle$ R 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: $\angle$ R 20 mohm MAX.
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL: 30 N MAX. / AFTER TEST: 30 N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 20 N MAX. 5 N MIN. / AFTER TEST: 20 N MAX. 3 N MIN.
PRODUCT SPECIFICATION	PRS-2008
TEST REPORT	TR-14100
PACKING STANDARD	PST-12066
INSTRUCTION MANUAL	HIM-16011

ANGLE		±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R8	CUSTOMER COPY
6 MAX.		±0.2	30 OVER 120 MAX.	±0.5			
GENERAL TOLERANCE							
DWG.	DATE		TITLE		SCALE		
CHK.	DATE		MHF® 4L PLUG NI TOP (1.37)		UNIT mm		
APP.	DATE		DWG. No.		SIZE A3		
			20632		SHEET 2 / 5 REV. 2		
							

DAI-ICHI SEIKO CO., LTD.

QKE-DFFDE06-02 REV.11

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X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

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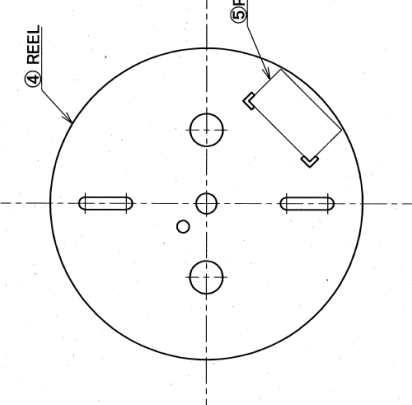
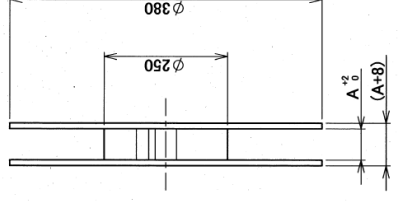
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SPEC	REV.
A0	

PART NO.	20632-001R-37
APPLICABLE CABLE STRIP DIMENSION	
INNER CONDUCTOR DIELECTRIC CORE OUTER CONDUCTOR JACKET	
REQUIREMENTS	CHARACTERISTIC IMPEDANCE: 50(±2) ohm BY TDR METHOD NOMINAL CAPACITANCE: 98pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR: 320 ohm/km INSULATION RESISTANCE: 1500 Mega-ohm.km MIN. DIELECTRIC WITH STANCE VOLTAGE: NO BREAKDOWN AT 1500 V AC FOR 1 MINUTE.
BRAIDED SHIELD OF OUTER CONDUCTOR	SINGLE BRAIDED SHIELD
PART NO. OF SEMI AUTO TERMINATION MACHINE	90703-037
CRIMP HEIGHT	OH-1 (i-Fit®) PART 1.46~1.50 CH-2 (SHIELD PART) 1.16~1.20 CH-3 (JACKET PART) 1.27~1.31
NOTES 2. DESCRIPTION INNER CONDUCTOR DIELECTRIC CORE OUTER CONDUCTOR JACKET	AWG#30 (7/0.102) SILVER PLATING ANNEALED COPPER WIRE *MUST NOT USE SOLDER COATED INNER CONDUCTOR. FLUORO-PLASTICS DIAMETER 0.88(+0.04/-0.02)mm NOMINAL THICKNESS 0.29mm 16/5/0.05 NOMINAL DIAMETER 1.13mm TIN-COATED ANNEALED COPPER WIRE. *MUST NOT USE SOLDER COATED OUTER CONDUCTOR FLUORO-PLASTICS DIAMETER 1.37±0.08mm NOMINAL THICKNESS 0.12mm
CUSTOMER COPY	SCALE: - mm UNIT: mm SIZE: A3 SHEET: 3/5 REV: 2 QKE-DFFDE08-02 REV.1

UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A			INPAQ TECHNOLOGY CO., LTD.	
SCALE : N/A	UNIT : mm		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
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DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮			
TITLE : RFPCA351455EMLB901		DOCUMENT NO.	000803511492	SPEC REV.
				A0

PART NO.	A	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20632-001R-37	15	2,000 / REEL	5 REELS / CARTON = 10,000 PIECES

5	PACKING LABEL	-	-
4	REEL	PP	-
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	R8	SERIES No.	R8	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5	TITLE	MHF® 4L PLUG Ni TOP (1.37)	SCALE	-	
DWG	DATE	DATE	DATE	DWG No.	20632	UNIT	mm	
CHK	DATE	DATE	DATE	SIZE	A3	SHEET	4/5	REV. 2
APP.	DATE	DATE	DATE					

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QKE-DFFDE06-02 REV.11

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ANGLES=N/A HOLEDIA=N/A



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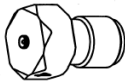
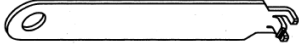
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MHF 4 (4L) SMA ADAPTOR PART NO. 90449-001		MHF 4 (4L) INSPECTION CONNECTOR PART NO. 90449-003-01		FRONT SIDE MHF 4L (1.37) PUSHING AND PULLING TOOL PART NO. 90873-0001		BACK SIDE MHF 4L (1.37) PUSHING AND PULLING TOOL PART NO. 90873-0001	
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DESIGNED BY : 黃瑞郎		APPROVED BY : 陳振榮		UNIT			
TITLE : RFPCA351455EMLB901		DOCUMENT NO.		mm			
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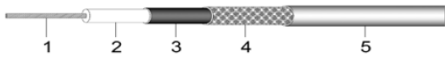
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Cable Specification

型号 Type	RF-1.37L/50	料号 P/N	SY137L/50-005(Black)	
结构图 Structure drawing				
结构特性 Structure characteristics				
结构 Structure	项目 Item	标准值 Standard value		
①内导体 Inner conductor	材料 Material	镀银铜线 Silverplated copper wire		
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	7/0.105		
	(绞合)标称外径(mm) (Intertwist)NOM.O.D.(mm)	0.315±0.02		
②绝缘层 Insulation	材料 Material	聚全氟乙丙烯 FEP		
	颜色 Color	透明 Clarity		
	标称外径(mm) NOM.O.D.(mm)	0.925±0.03		
③外导体 Outer conductor	材料 Material	铜塑箔 Cu-plastic composite tape		
	组成:厚度(mm)×宽度(mm) Makeup:thickness(mm)×width(mm)	0.012×3.2		
	标称外径(mm) NOM.O.D.(mm)	0.95±0.03		
	覆盖率(%) Coverage ratio(%)	100		
④外导体 Outer conductor	材料 Material	镀锡铜线 Tinned copper wire		
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	5/0.05		
	标称外径(mm) NOM.O.D.(mm)	1.15±0.05		
	覆盖率(%) Coverage ratio(%)	90±5		
⑤护套层 Jacket	材料 Material	聚全氟乙丙烯 FEP		
	颜色 Color	黑 Black		
	标称外径(mm) NOM.O.D.(mm)	1.37±0.05		
电性能特性 Electrical characteristics				
项目 Item	标准值 Standard value	项目 Item	频率 Frequency	标准值 Standard value 单位 Unit:dB/m
电容(pF/m) Capacitance(pF/m)	96	衰减 Attenuation	1GHz	≤1.6
速率(%) Velocity(%)	70		2GHz	≤2.1
阻抗(Ω) Impedance(Ω)	50±2		2.45GHz	≤2.35
驻波比 Standing wave ratio	≤1.3@0~8GHz		3GHz	≤2.6
最大工作电压(V) Max.operating voltage(V)	1000		4GHz	≤3
最大工作频率(GHz) Max.operating frequency(GHz)	6		5GHz	≤3.4
			5.2GHz	≤3.5
			5.8GHz	≤3.6
			6GHz	≤3.7
可靠性 Dependability				
项目 Item	单位 Unit	标准值 Standard value		
最小弯曲半径(一次) Min.bending radius static	mm	5		
最小弯曲半径(重复) Min.bending radius repeated	mm	—		
工作温度范围 Operating temperature	℃	-55~+200		
包装 Packing				
项目 Item	单位 Unit	标准值 Standard value		
包装方式 Packing mode	/	纸盘 Paper plate		
每盘长度 The length of each plate	m	500		
每盘接头数 Each connector plate number	/	≤3		
每段最短长度 The shortest length of each root	m	≥10		
使用提示 Use tips				
存储环境 Storage environment	温度: 30℃以下; 湿度: 20%~65%			
最佳保存周期 The best save cycle	2个月; 2个月以上作业性下降, 如上锡效果变差, 但电性不受影响。夏季高温高湿环境开剥后需尽快流转			
加工温度 Processing temperature	260℃的极限情况下, 可短时间承受; 300℃以上分子通常带有的等端基会分解; 400℃以上发生显著的热分解			
铁氟龙收缩 Teflon Shrink	固有材料特性。绝缘: 0.2mm以下; 护套: 0.3mm以下			
护套滑动 Jacket traverse	加工长度(护套残留长度) 低于5cm易发生			
其他 Other				
特殊加工工艺, 请与供方协商后使用				

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APPROVED BY : 陳振榮

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5. Package

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RFPCA351455EMLB901生規		頁次： 6 之 4			
		規章編號：PDS070032240		版次：A0 版	
		制修訂日期：2021/8/13			
產品包裝圖示： 圖一  ⇒  ⇒  單pcs產品 PE袋 25pcs/扎, 50pcs/袋, PE袋需封					
圖二  ⇒  ⇒  珍珠棉 外箱 珍珠棉放入外箱					
圖三  ⇒  ⇒  ⇒ 					
產品包裝規範： 1. 將每25pcs產品使用珍珠棉將端子端用橡皮筋包扎, 每PE袋50pcs, PE袋需封口, 如圖示(一) 2. 將珍珠棉放入外箱中(如圖示二) 3. 將裝好的成品(如圖示三)放入外箱中, 每箱放1000pcs產品, 上下各放1片珍珠棉, 將包裝好的外箱左上方貼製造標籤, 封箱需六面封箱, 呈“工”字 4. 製造標籤需貼到最小包裝。					
核准：	何耀輝	審核：	童明輝	制定：	李连杰

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