

APPROVAL SHEET

PCB ANTENNA

2.4\ 5.x GHz Band Working Frequency

Halogens Free Product

P/N: RFPCA351746EMLB901

Customer : 研華股份有限公司

Customer 's Part No. : **1751000162-01**

Approval No. : _____

Issue Date : _____

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

品名：RFPCA351746EMLB901

History List

[illegible]

1.Explanation of part number :

RF	PCA	3517	46	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.: 3517 Length 35.10mm, Width 17.00mm	2 digits for cable length e.g.:46 Length 46.0cm	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	2.62 dBi(@2400 ~ 2500 MHz) 3.40 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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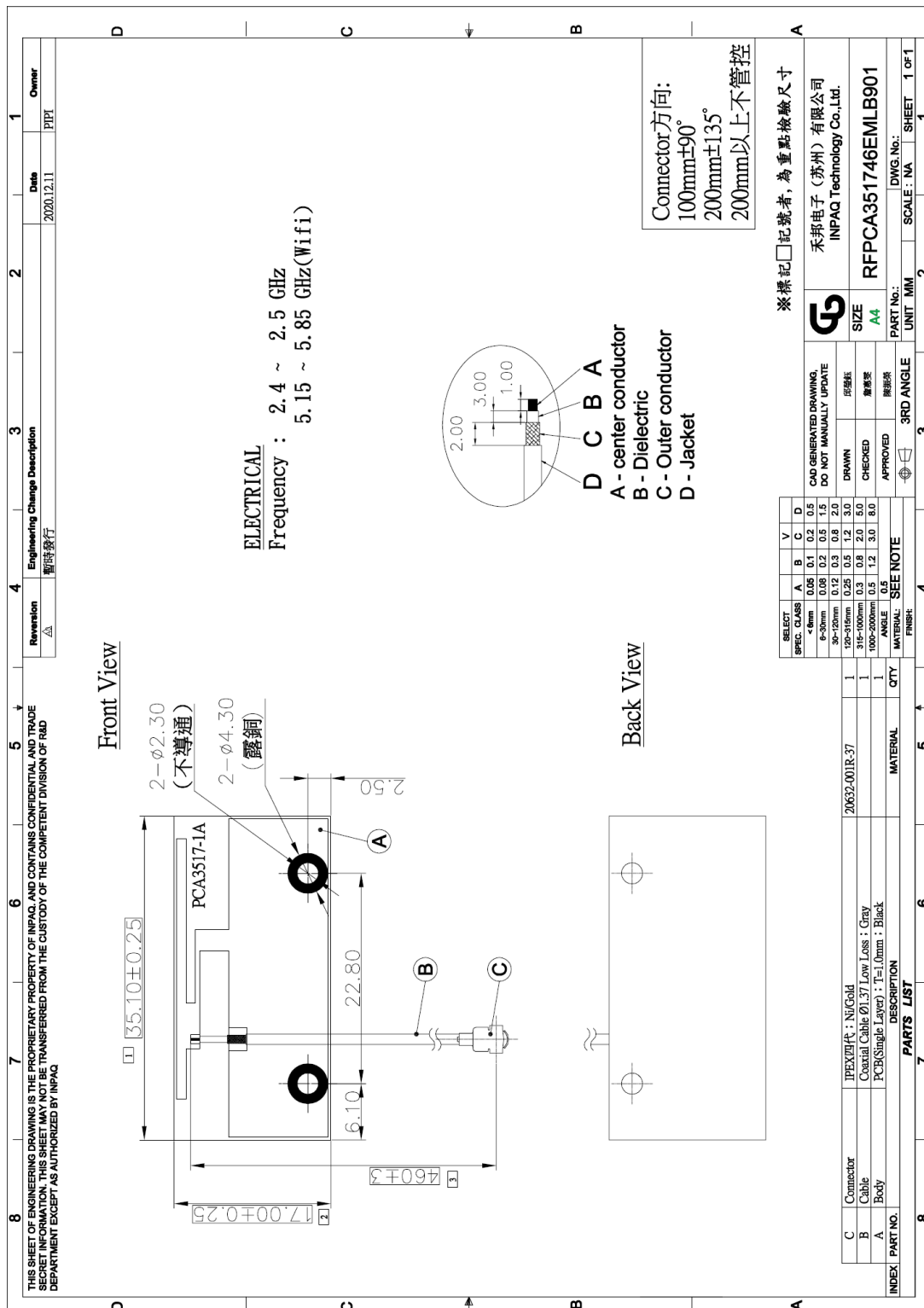
TITLE : RFPCA351746EMLB901

DOCUMENT NO.

000803511483

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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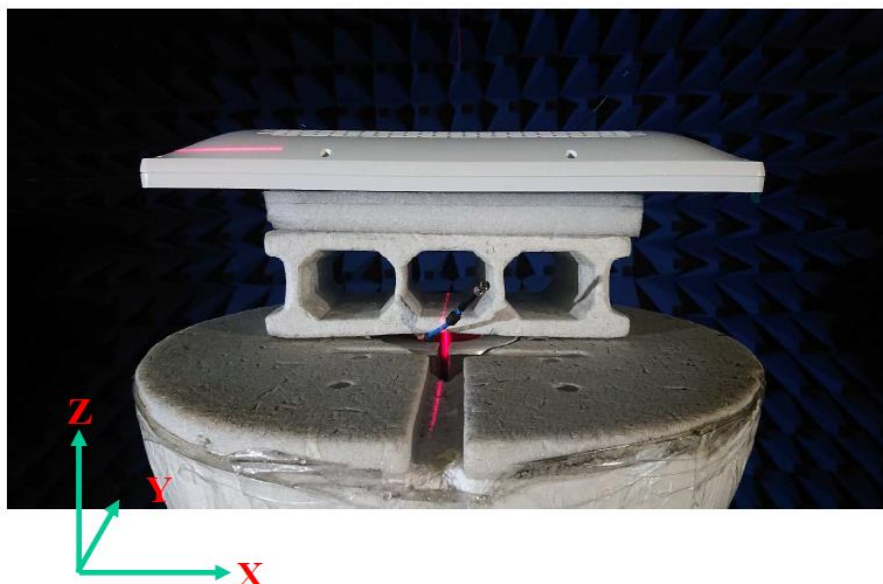
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4. Performance Report :

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



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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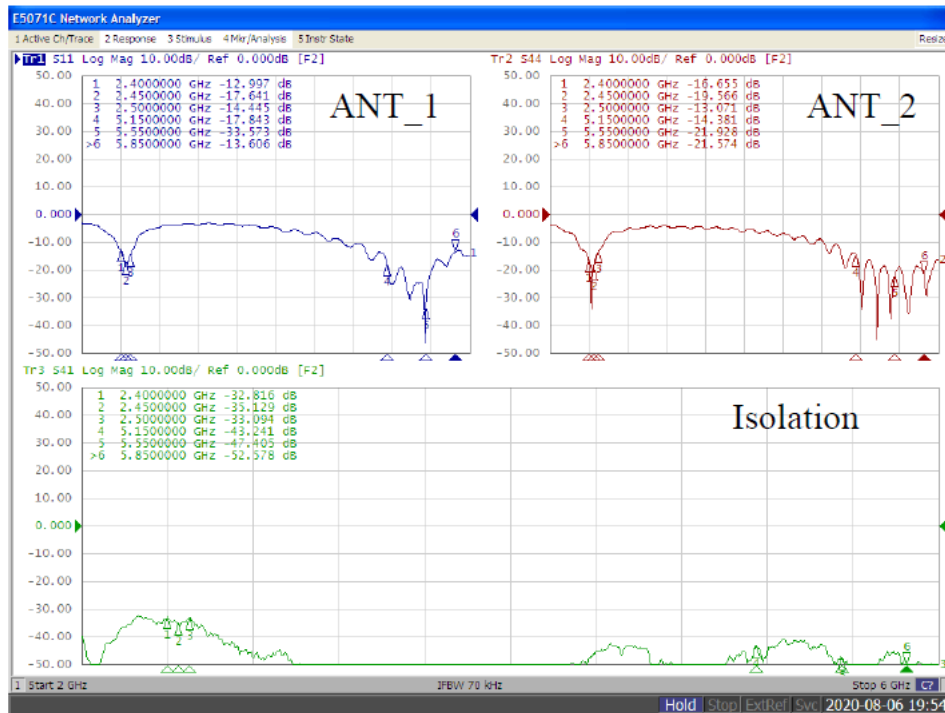
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ELECTRICAL CHARACTERISTICS

Return Loss & Isolation



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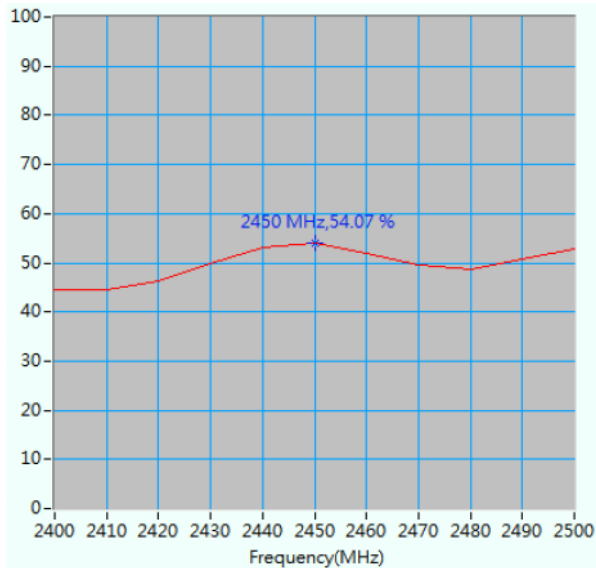
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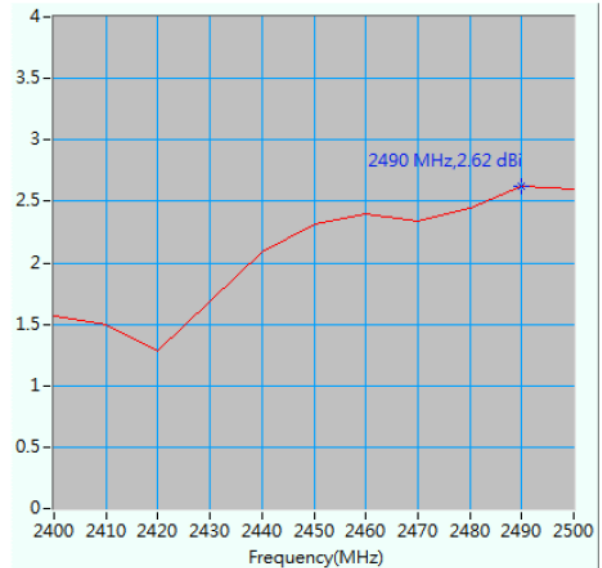
Antenna Efficiency & Peak Gain

ANT_1

2G

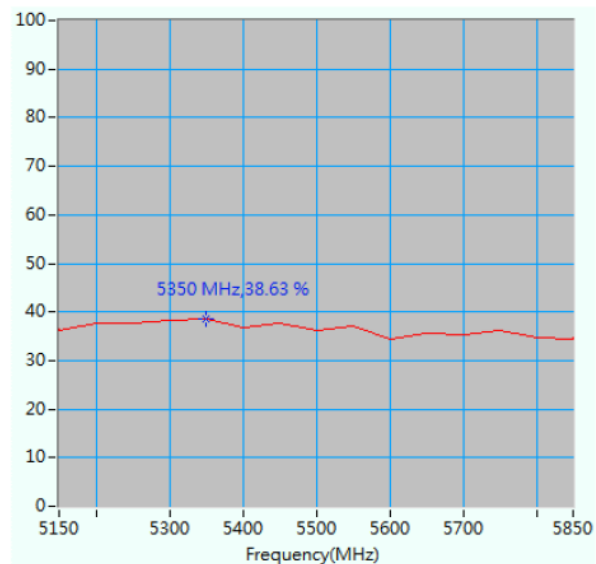


Maximum Efficiency at 2450 MHz : 54.07 %

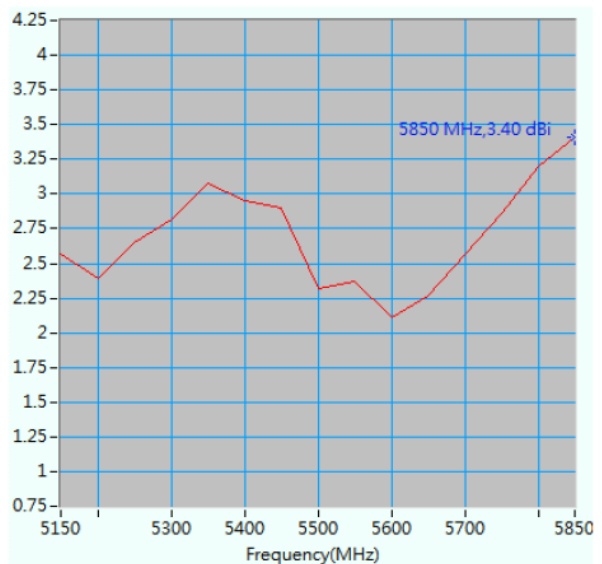


Maximum Peak Gain at 2490 MHz : 2.62 dBi

5G



Maximum Efficiency at 5350 MHz : 38.63 %



Maximum Peak Gain at 5850 MHz : 3.4 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

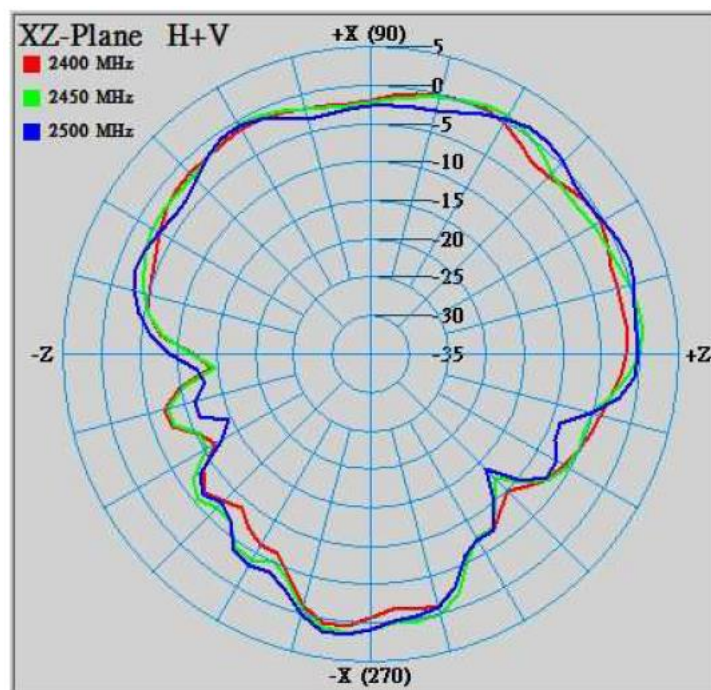
ANT_1

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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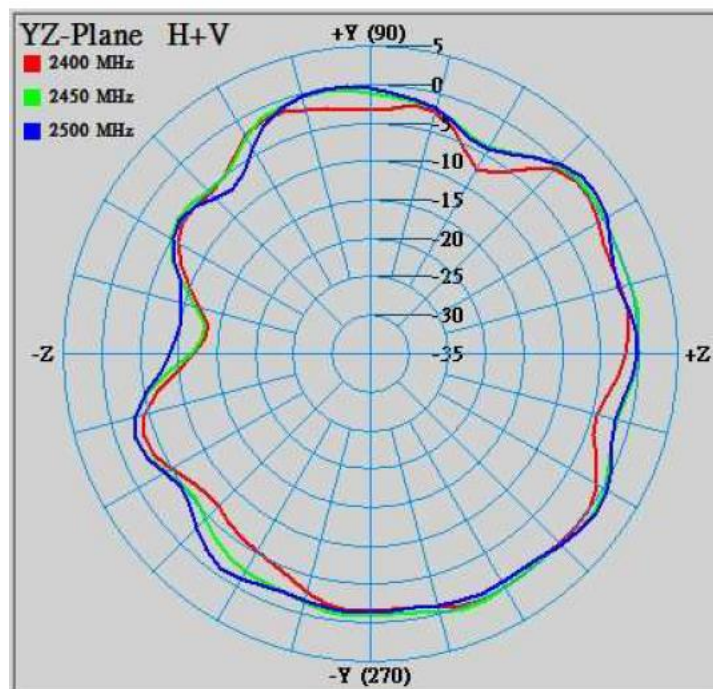
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SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



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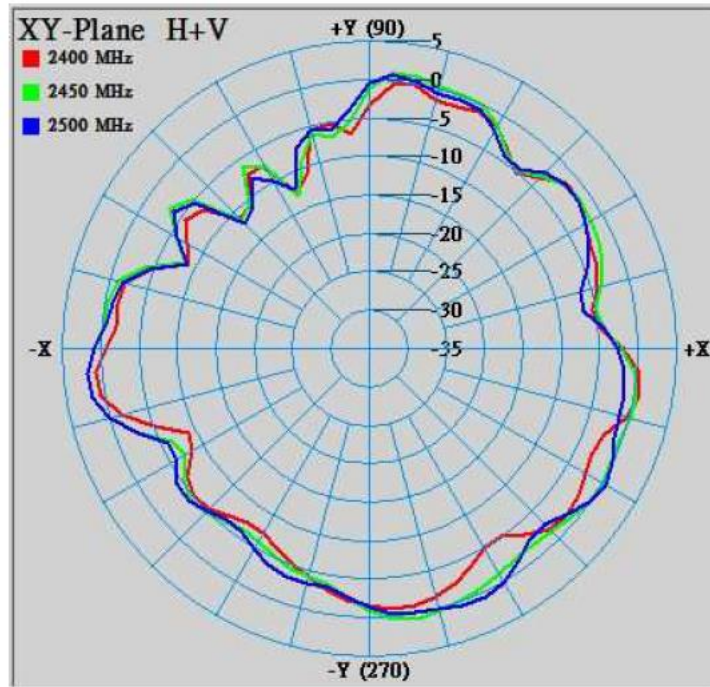
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SPEC REV.
A0

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]
2400	0.64	-2.95	0.16	-2.89	0.80	-3.13
2450	1.36	-2.41	0.75	-1.78	1.83	-2.04
2500	1.77	-2.43	1.02	-1.88	1.95	-2.27

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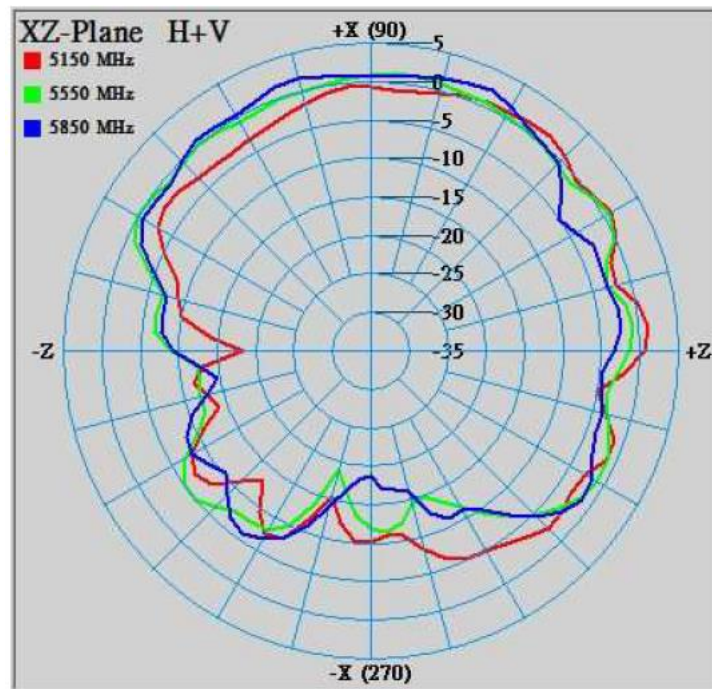
ANT_1

5150~5850 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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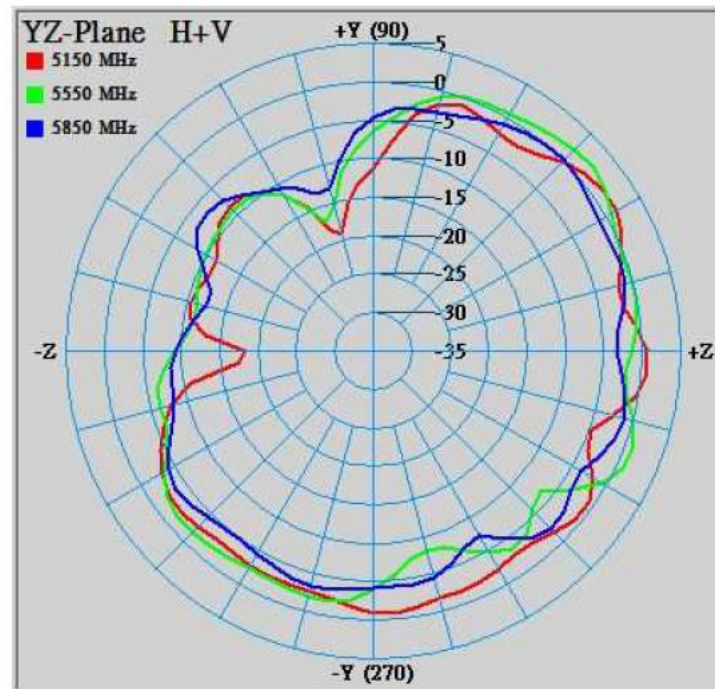
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SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



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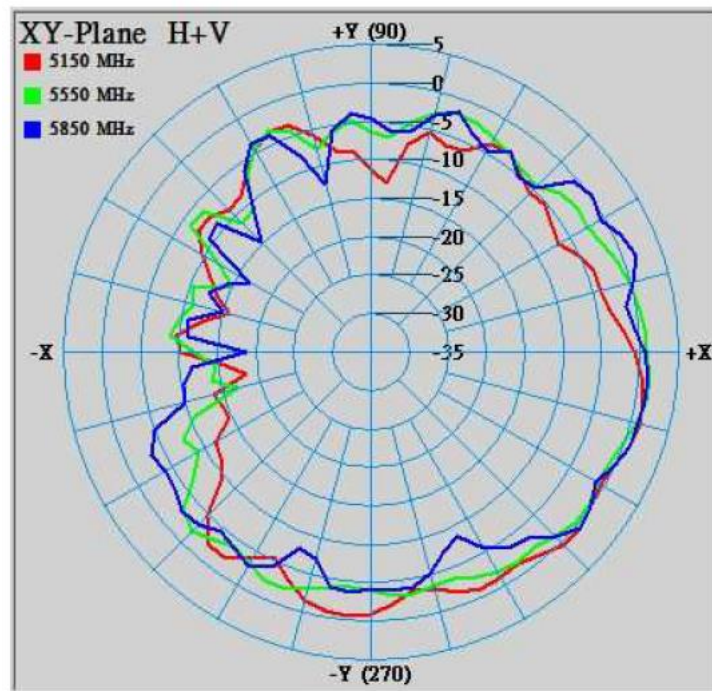
000803511483

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	1.34	-3.01	1.61	-3.01	1.12	-3.71
5550	1.18	-2.57	2.26	-2.74	1.46	-3.21
5850	2.29	-2.71	0.00	-3.96	1.71	-3.26

UNLESS OTHER SPECIFIED TOLERANCES ON :
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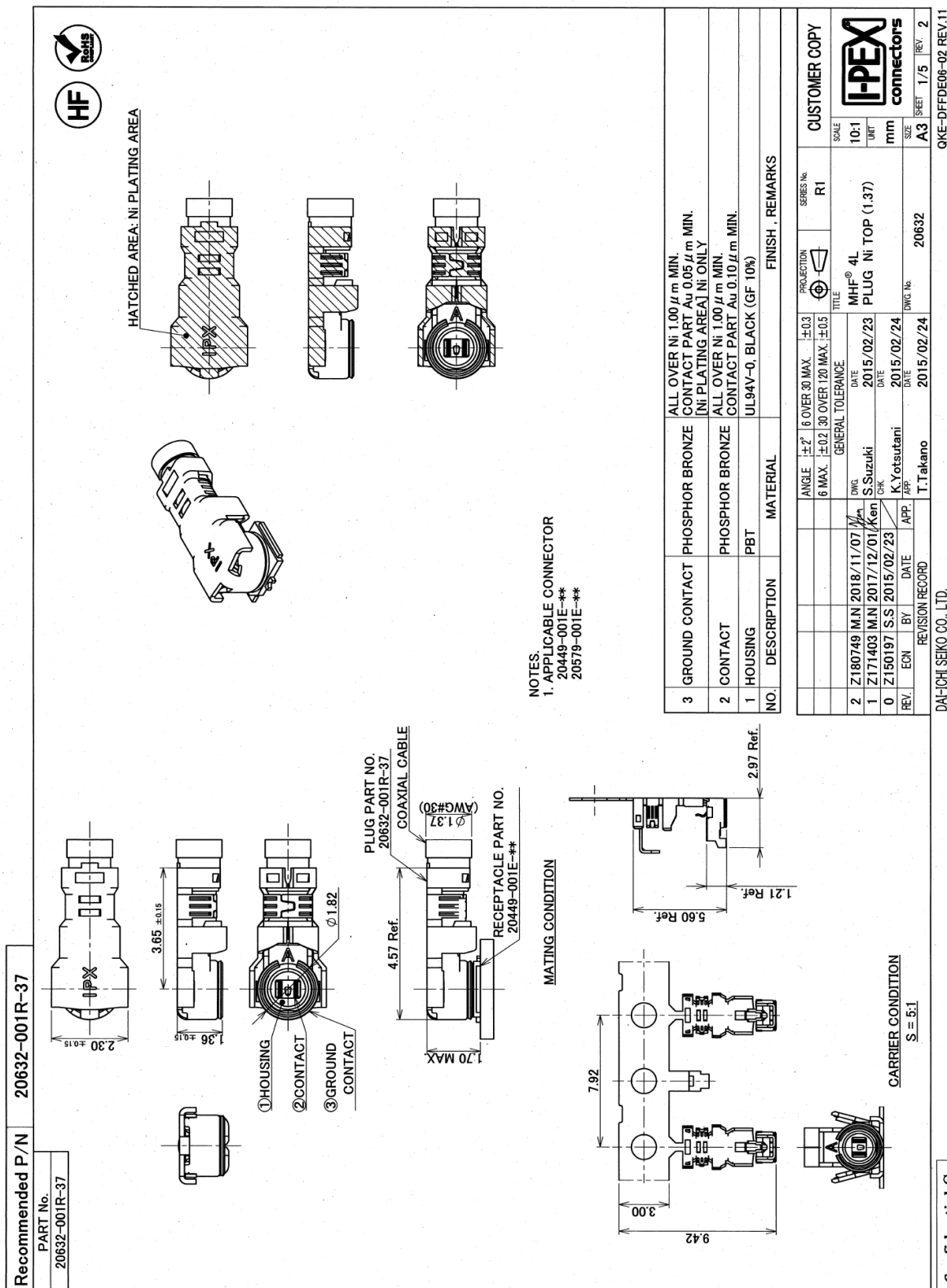
TITLE : RFPCA351746EMLB901

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SPEC REV.
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Connector Specification



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



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SPEC	REV.
A0	

ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR	
PART No.	20449-001E-**-
RATING VOLTAGE	60 V AC (R.M.S)
RATING FREQUENCY	DC~12 GHz
OPERATING TEMPERATURE	233~363K (-40°C~+90°C)
/SWR	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
SEPARATING FORCE (INITIAL / AFTER TEST)	INITIAL: 30 N MAX. / AFTER TEST: 30 N MAX.
UNWINDING 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-12086
INSTRUCTION MANUAL	HIM-16011

									CUSTOMER COPY
ANGLE ± 2° MAX.	6 OVER 30 MAX. +0.3 -0.2 30 OVER 120 MAX. ± 0.5	PROJECTION 	SERIES No. R8						
GENERAL TOLERANCE									SCALE
DWG.	DATE	MHF® 4L	TITLE	-					
CHK.	DATE	PLUG Ni TOP (1.37)		UNIT	mm				
APP.	DATE								
		DWG. No.	20632	A2					
				SHEET / E	REV.				

DAI-ICHI SEIKO CO., LTD.

QKE--DFFDE06-02 REV.11

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UNLESS OTHER SPECIFIED TOLERANCES ON :
X=N/A X.X=N/A X.XX=N/A
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SPEC	REV.
A0	

PART NO.		20632-001R-37	
APPLICABLE CABLE STRIP DIMENSION		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-Fr®) 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 UNIT mm SIZE A3 SHEET 3/5 REV. 2		QKE-DFFDE06-02 REV.1.1	

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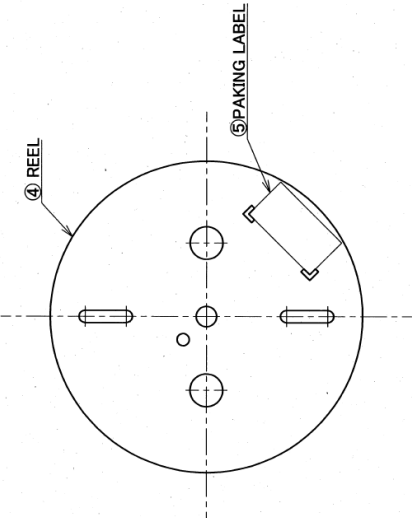
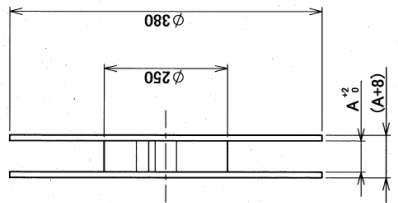
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PART NO.	A	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20632-001R-37	15	2,000 / REEL	5 REELS / CARTON = 10,000 PIECES

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	SIZE	A3	SHEET
CHK	DATE	DATE	DATE	DWG No.	20632	UNIT	mm	REV.
APP.	DATE	DATE	DATE	DWG No.	20632	SIZE	A3	REV.

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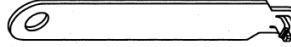
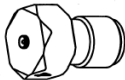
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FRONT SIDE MHF 4L (1.37) PUSHING AND PULLING TOOL PART NO. 90873-0001		BACK SIDE MHF 4L (1.37) PUSHING AND PULLING TOOL PART NO. 90873-0001	
			
MHF 4 (4L) INSPECTION CONNECTOR PART NO. 90449-003-01		MHF 4 (4L) SMA ADAPTOR PART NO. 90449-001	

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

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QKE-DFE00-02 REV.11

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ANGLES = N/A HOLEDIA = N/A



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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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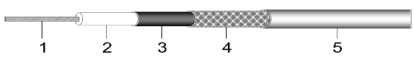
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Cable Specification

型号 Type	RF-1.37L/50	料号 P/N	SY137L/50-005(Gray)	
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) (Inter twist)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	铜塑带 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		
	材料 Material	镀锡铜线 Tinned copper wire		
④外导体 Outer conductor	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		
	材料 Material	聚全氟乙丙烯 FEP		
	颜色 Color	灰 Gray		
⑤护套层 Jacket	标称外径(mm) NOM O.D.(mm)	1.37±0.05		
	材料 Material	聚全氟乙丙烯 FEP		
电性能特性 Electrical characteristics				
项目 Item	标准值 Standard value	项目 Item	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@0~6GHz		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
			1GHz	≤29
		回波损耗 Return Loss	2.4GHz	≤23.1
			6GHz	≤16.5
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 Papery 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封后需尽快流转			
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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5. Package

禾邦電子有限公司					
RFPCA351746EMLB901生規			頁次： 6 之 4		
			規章編號：PDS070032250		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： - 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) - 將珍珠棉放入外箱中(如圖示二) - 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 - 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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