

規格承認書
Approval Sheet

客戶名稱

Customer Name: 漢唐

產品名稱

Product description: 2.4GHz Dipole to IPEX 內构图

產品型號

Model Name:

泓淋料號

Hong Lin P/N: 290-70073

客戶料號

Customer P/N:

版別 日期
Version: X1 Date: 2014/10/25

客戶承認簽印 CUSTOMER APPROVED BY	供應商承認簽印 VENDER APPROVED BY
Checked By:	Checked By:
Approval By:	Approval By:

工廠/Factory:

1. 江蘇省常熟市高新技術產業園柳州路8號; 電話: +86-512-51538298; 電子信箱: jtk@honglincable.com

No.8 Liuzhou Road, Yushan Industrial Park, Hi-tech Development Zone, Changshu, Jiangsu, China

Tel: +86-512-51538298; E-mail: jtk@honglincable.com

Building 6.No.2 Industrial Park, Shapuwei, Songgang Town, Baoan District,Shenzhen, Guangdong, China;

Tel:+86-755-27090678 ; E-mail:yhh@honglintech.com

Content

<u>Item</u>	<u>Page</u>
(1) Specification (規格表).....	3
(2) Test data (测试资料)	4-6
(3) Antenna assembly (成品圖).....	7
(4) 包裝圖.....	8
(5) 实物图	9
(6) BOM LIST	9
(7) Cable SPEC	10
(8) SGS	11-69

1 Specification

1.1 Electrical Properties(With Housing)

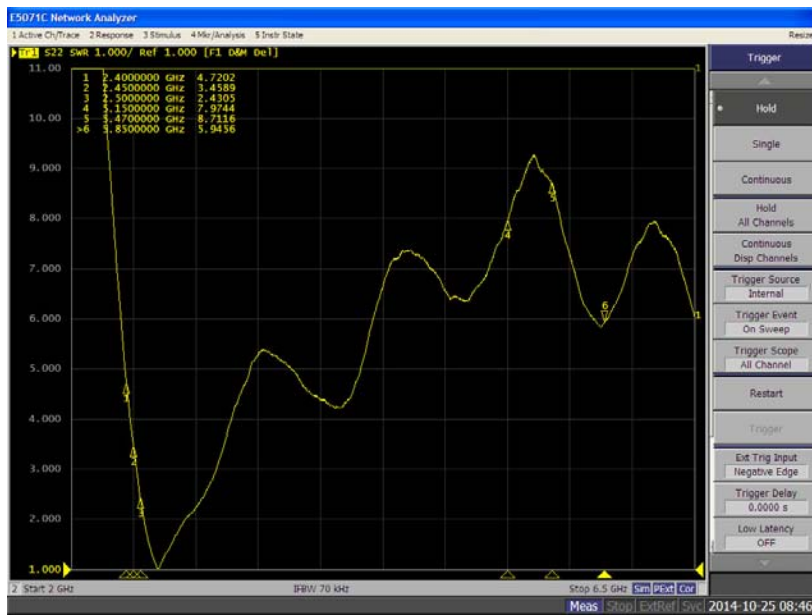
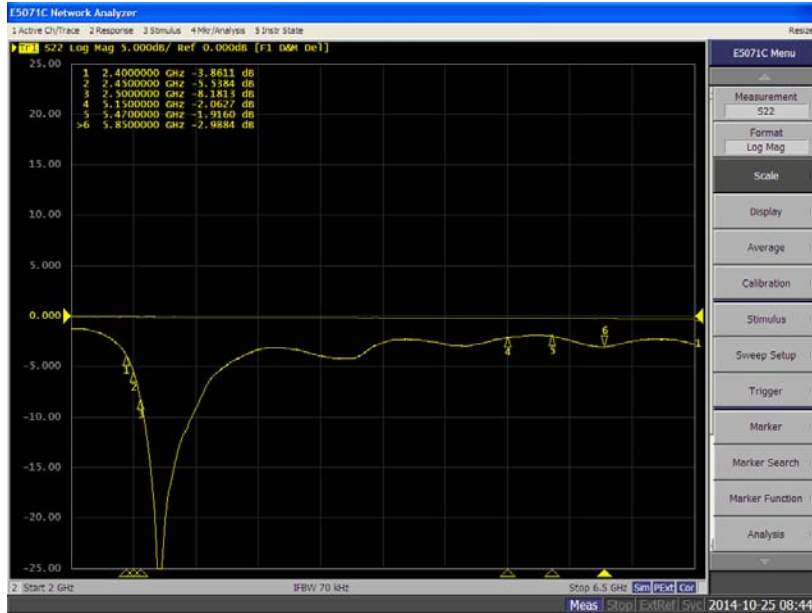
- 1.1.1 Frequency Range----- 2.4GHz~2.5GHz
- 1.1.2 Impedance----- 50Ω
- 1.1.3 VSWR----- 1.92:1
- 1.1.4 Return Loss----- -10dB or Less
- 1.1.5 Radiation----- Omni-directional
- 1.1.6 Peak Gain----- 2.60dBi
- 1.1.7 Admitted Power----- 1W

1.2 Physical Properties

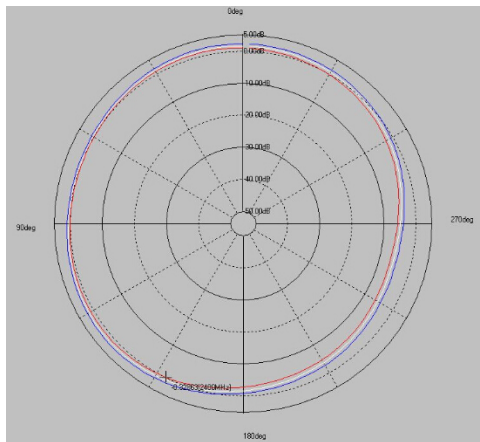
- 1.2.1 Operating Temp----- $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- 1.2.2 Storage Temp----- $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$

2. Test data

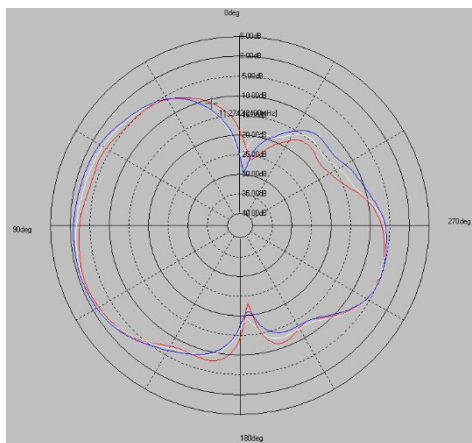
2.1 Return Loss and VSWR(Without Housing)



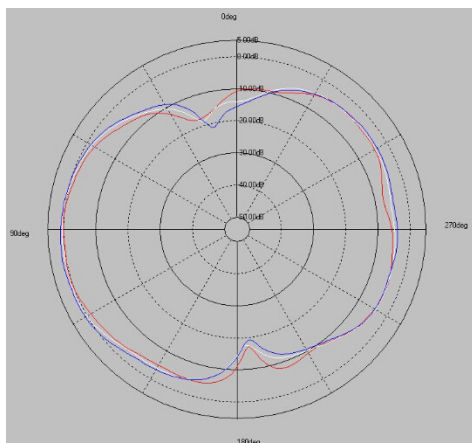
2.2 Radiation Pattern(Without Housing)



X-Y plane



X-Z plane



Y-Z plane

2.4 Gain Table(Without Housing)

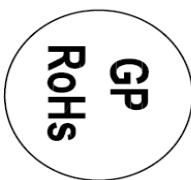
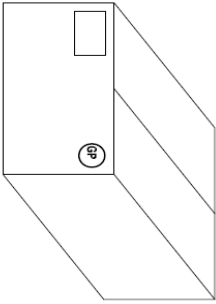
Frequency (MHz)	X-Z plane Phi=0		Y-Z plane Phi=90		X-Y plane theta=90		E-total (dBi)	Efficiency (%)
	Peak Gain	Average Gain	Peak Gain	Average Gain	Peak Gain	Average Gain		
2400	-1.25	-7.81	0.22	-5.29	1.01	-1.34	1.39	66%
2450	-0.82	-7.41	0.54	-4.93	1.60	-0.65	1.61	67%
2500	-0.67	-7.06	1.28	-4.62	2.23	0.05	2.6	68%

包装规范

CUSTOMER: 汉唐		HONGLIN P/N: 290-70073		ECN NO.	版本/版次	变更内容	日期	核准
TITLE: 2.4G内置线		CUSTOMER P/N:			A10	初次发行	2014.09.15	严萌萌
PACKING MATERIAL								
ITEM	P/N	DESCRIPTION	QTY					
1		纸箱320*320*200MMK=K	1PCS					
2		纸隔板305*305MM B3B	7PCS					
3		中包装及外箱标签 40*65mm"	74pcs					
4		标签20*15MM,椭圆形,绿底黑字,印"GP ROHS" 铜板纸,"	74PCS					
5		角质板 50*50*3*180	4PCS					
6		PE袋(M)105*(L)300*0.03mm, 打孔"	144PCS					
7		珍珠棉袋L50*W50*T0.7MM	144PCS					
8		非粘性白色橡皮筋无齿Φ14MM	144PCS					
9		Φ2.5内径Φ3.15±0.2MM透明热缩管	1PCS					
DESCRIPTION								
25pcs一捆, 50PCS一包								
每层放12包, 共6层72包								
3600pcs一箱								
尾数箱需增加气泡袋填充								
净重: KG/CTN		QTY: 3600PCS						
毛重: KG/CTN								

1.中/外包装标签

汉唐 P/N:	XXXXXXXXXXXX
厂商 P/N:	290-70073
品名	2.4G内置线
数量:	50PCS
生产日期:	20XX.XX.XX



椭圆形: 20*15mm

标签注释: 尺寸65mm*40mm, ASUS P/N:客户代码, 数量:一包或者一箱产品的数量, 生产日期: 当日生产日期, 外箱标签贴于外箱左上角。GP ROHS标签贴于标签上方, 箱子两侧都贴。

4.包装图

APPVD: 陈军民

CHECK: 殷超

DRAWN: 严萌萌

HLMH-Q3-E020 A10

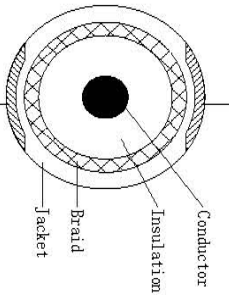
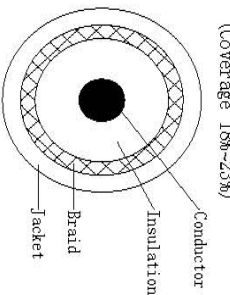
5.实物图



6. BOM List

序号	规格说明	开发单耗	单位
1	Φ1.13mm Cable 灰色 50Ω	0.132	M
2	I-PEX 端子 FOR 1.13 CABLE	1	PCS
3	接地铜管组 Φ4.5*23 黄铜镀锡+底塞 1.13	1	PCS
4	PE 袋 (W)105*(L)200*0.03mm, 打孔	144	PCS
5	珍珠棉袋 (W)50*(L)50*(T)0.7mm	144	PCS
6	橡皮筋#14	144	PCS
7	锡丝 Φ0.8mm	0.035	g

7 .Cable SPEC

1.13 Coaxial Cable		Customer:		P/N: RM065	Rev.: A/0																						
Cross Section	Construction	Mechanical Characteristics																									
Extrusion Gray Striped (Coverage 18%-23%)  Extrusion Gray Striped (Coverage 18%-23%) 	Conductor AWG 32 Construction (mm) 7/40AWG Diameter(mm) 0.24 Insulation Minimum Thickness (mm) 0.15 Min. Average Thickness (mm) 0.18 Diameter(mm) 0.70±0.02 Braid Construction (mm) 16/40.05(16F) Tolerance ±0.005 Coverage(%) ≥85 Jacket Minimum Thickness (mm) 0.08 Min. Average Thickness (mm) 0.09 Diameter(mm) 1.13±0.05 Surface Plane Visual Luminosity Light	Test Object Test Material FEP Before Aging Tensile Strength (Kg/mm²) ≥1.76 Elongation (%) ≥200 Flame Test VW-1 Electrical Characteristics Max. Conductor DC Resistance at 20°C (Ω/km) 597 Dielectric Strength (kv/min) 0.5 Insulation Resistance(km) 1000MΩ.km Impedance: 50±5Ω Attenuation <table><tr><th>Frequency (Ghz)</th><th>dB/m(Max.)</th></tr><tr><td>1</td><td>2.3</td></tr><tr><td>2</td><td>3.3</td></tr><tr><td>2.4</td><td>3.6</td></tr><tr><td>3</td><td>4.1</td></tr><tr><td>4</td><td>4.8</td></tr><tr><td>5</td><td>5.4</td></tr><tr><td>6</td><td>5.9</td></tr></table>VSWR <table><tr><th>Frequency (Ghz)</th><th>≤1.3</th></tr><tr><td>0~2.5</td><td>≤1.4</td></tr><tr><td>2.5~6</td><td></td></tr></table>				Frequency (Ghz)	dB/m(Max.)	1	2.3	2	3.3	2.4	3.6	3	4.1	4	4.8	5	5.4	6	5.9	Frequency (Ghz)	≤1.3	0~2.5	≤1.4	2.5~6	
Frequency (Ghz)	dB/m(Max.)																										
1	2.3																										
2	3.3																										
2.4	3.6																										
3	4.1																										
4	4.8																										
5	5.4																										
6	5.9																										
Frequency (Ghz)	≤1.3																										
0~2.5	≤1.4																										
2.5~6																											
Marking	Color	Environmental Data																									
No Marking	Insulation: Nature Jacket: As customer's order(Hongjin Standard)	Cd<5ppm, Pb<40ppm, Cr ⁶⁺ (ND), Hg(ND), PBB(ND), PBDE(ND) Cl<700ppm; Br<700ppm; Total Cl+Br<1000ppm																									
Marking Color																											
Description																											
1.13 Coaxial Cable	80																										
Rated Temperature (°C):	30																										
Rated Voltage (V):																											
Application	Revision History																										
Internal wiring of appliances.																											
		常熟泓淋電纜有限公司 CHANGSHU HONGLIN WIRE & CABLE CO.,LTD Address: No.8 LinZhou Road, Yushan Industrial Park, High & New Technique Development Area, ChangShu City, JiangSu Province, China Tel:+86(512)51538298-6288 Fax:+86(512)51538297 E-mail: jtk@honglincable.com Http: www.honglincable.com Approved By Johnson Checking By Charles Design By Paul																									