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1 Specification

1.1 Electrical Properties(With Housing)

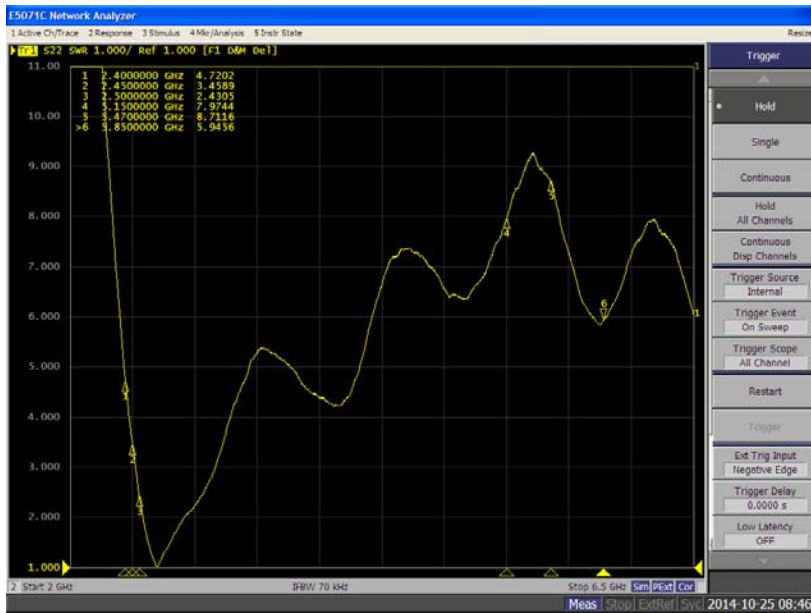
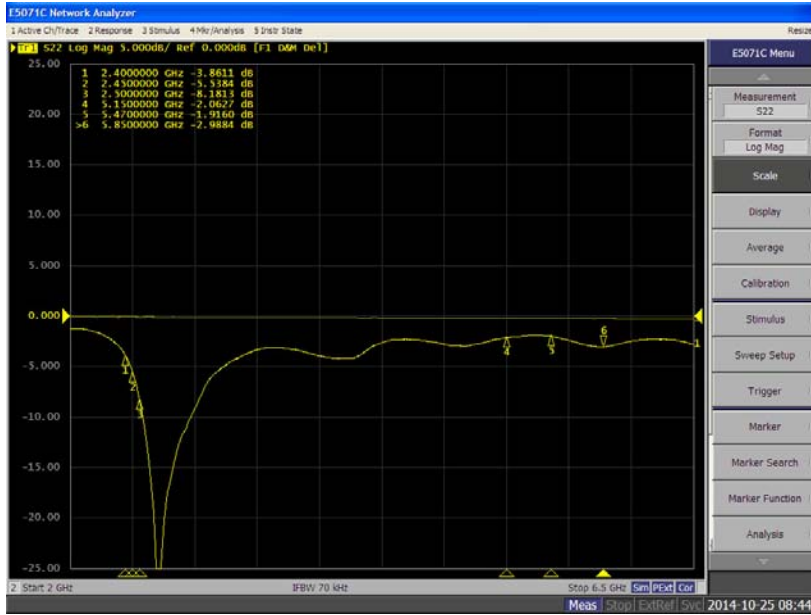
- 1.1.1 Frequency Range----- 2.4GHz~2.5GHz
- 1.1.2 Impedance----- 50Ω
- 1.1.3 VSWR----- 1.92:1
- 1.1.4 Return Loss----- -10dB or Less
- 1.1.5 Radiation----- Omni-directional
- 1.1.6 Peak Gain----- 2.60dBi
- 1.1.7 Admitted Power----- 1W

1.2 Physical Properties

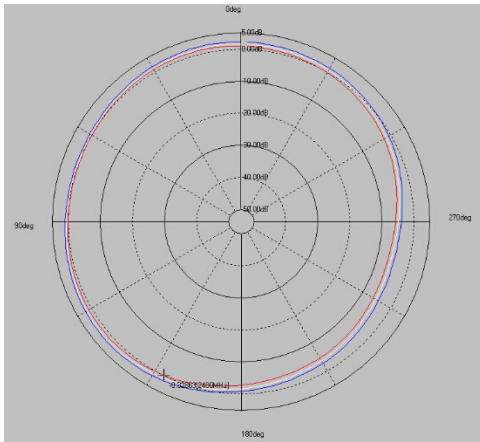
- 1.2.1 Operating Temp----- -10°C ~+60°C
- 1.2.2 Storage Temp----- -10°C ~+70°C

2. Test data

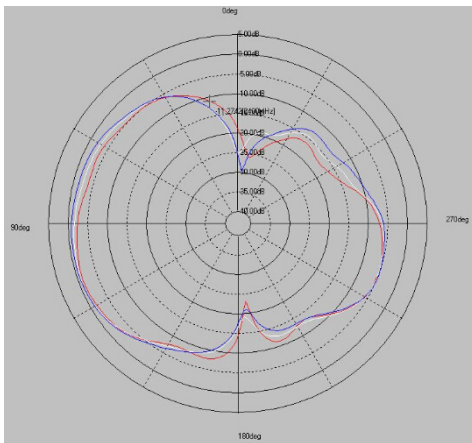
2.1 Return Loss and VSWR(Without Housing)



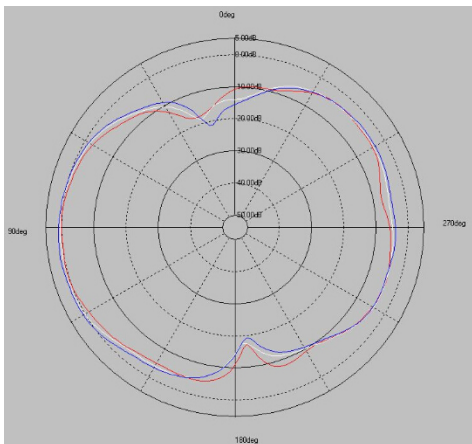
2.2 Radiation Pattern(Without Housing)



X-Y plane



X-Z plane

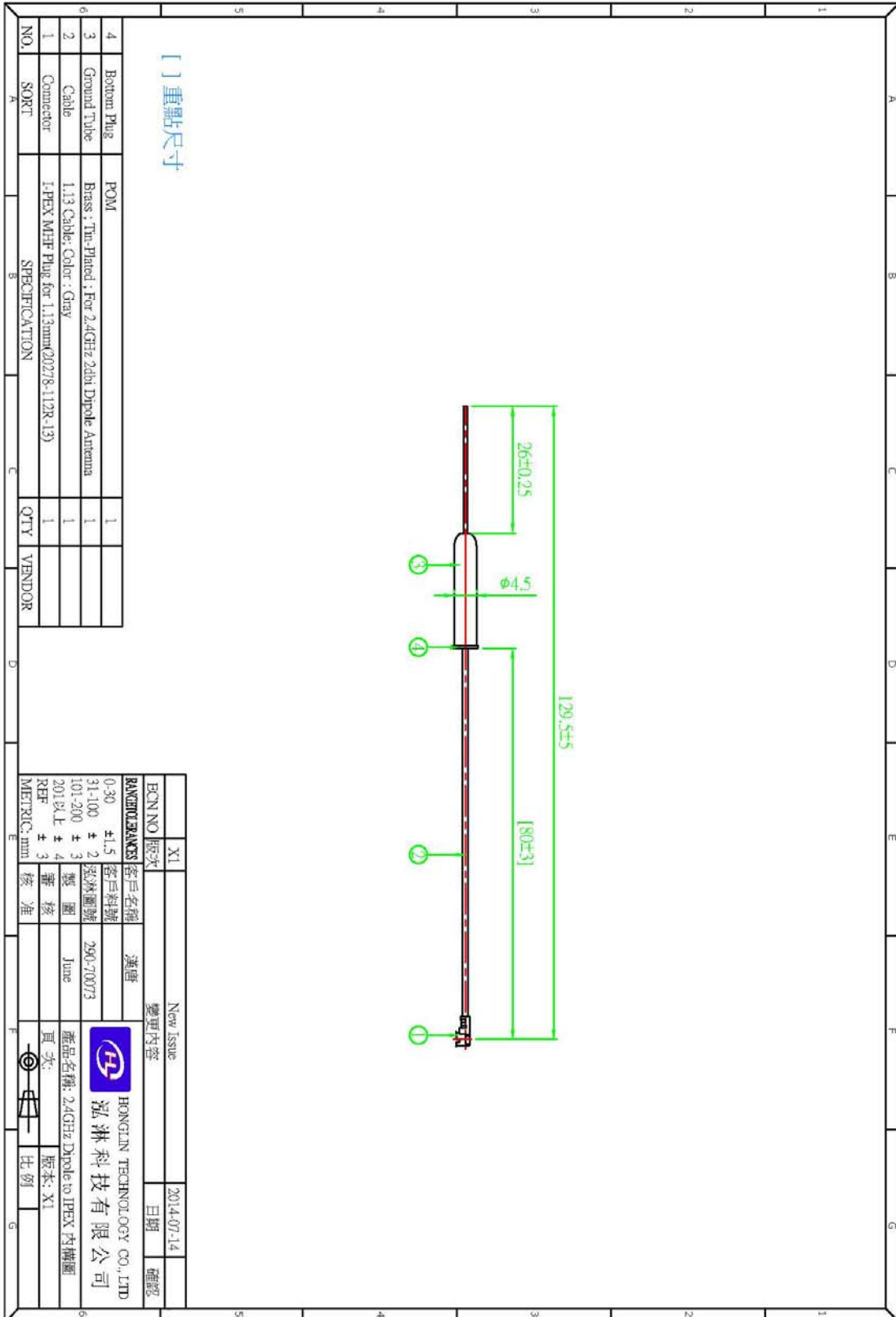


Y-Z plane

2.4 Gain Table(Without Housing)

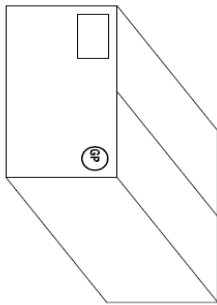
Frequency (MHz)	X-Z plane Phi=0		Y-Z plane Phi=90		X-Y plane theta=90		E-total (dBi)	Efficiency (%)
	Peak Gain	Average Gain	Peak Gain	Average Gain	Peak Gain	Average Gain		
2400	-1.25	-7.81	0.22	-5.29	1.01	-1.34	1.39	66%
2450	-0.82	-7.41	0.54	-4.93	1.60	-0.65	1.61	67%
2500	-0.67	-7.06	1.28	-4.62	2.23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

3. Antenna assembly (成品圖)



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*200MM=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								
APPRD: 陈军民				CHECK: 殷超				DRAWN: 严萌萌
				HLMH-Q3-E020 A10				



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

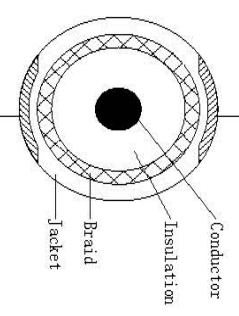
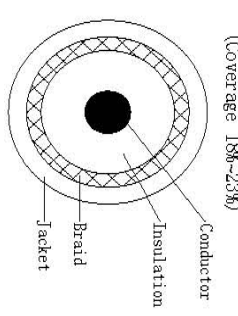

5.实物图



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:																	
Cross Section	Construction	P/N: RFW65 Rev.: A/0																	
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/5mm ²) ≥1.76 Elongation (%) ≥200 Flame Test VW-1 Electrical Characteristics Max. Conductor DC Resistance at 20°C (Ω/1m) 597 Dielectric Strength (kV/min) 0.5 Insulation Resistance(Ω.m) 100MΩ.km Impedance: 50±5Ω Attenuation <table border="1"> <tr> <td>Frequency(GHz)</td> <td>dB/m(Max.)</td> </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>		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)	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																		
Marking No Marking Marking Color	Insulation: Nature Jacket: As customer's order(Hongjin Standard)	Environmental Data Cd<5ppm, Pb<40ppm, Cr ⁶⁺ (ND), Hg(ND), PBB(ND), PBDE(ND) Cl<700ppm, Br<700ppm, Total CHBr<1000ppm																	
Description 1.13 Coaxial Cable Rated Temperature (°C): 80 Rated Voltage (V): 30	Color	Revision History																	
Application Internal wiring of appliances.	Revision History	 常熟泓淋電纜有限公司 CHANGSHU HONGLIN WIRE & CABLE CO.,LTD Address: No.8 Linzhou Road, Foshan Industrial Park,High & New Zone Development Area, Changshu City, Jiangsu Province, China Tel:+86(512)51538298-6238 Fax:+86(512)51538297 E-mail:rlk@hongjincable.com Http:www.hongjincable.com																	
Approved By Johnson	Checking By Charles	Design By Paul																	