



APPROVAL SHEET

客 户 (Customer)			
日 期 (Date)	2023/10/24		
品名规格 (Description)	OPEN:1.5+1.5+2-1.13灰-2.4G铜管天线-L总长120MM		
料 号 (Part No.)			
供应商承认签章：			
工 程 ENGINEERING DEPARTMENT	品 保 QC DEPARTMENT	业 务 SALES DEPARTMENT	
江荣祯	徐晓萱	江建国	
客户承认签章：			
工 程 ENGINEERING DEPARTMENT	品 保 QC DEPARTMENT	生 产 MANUFACTORY DEPARTMENT	采 购 PURCHASING DEPARTMENT
批示： ☐ 接受 ☐ 有条件接受 Instructions: ☐ accepted ☐ conditional acceptance			
备注：(Remakes)			

※ 感谢给予敝公司送样承认之机会. 如惠蒙承认通过, 烦请将此表签回敝公司.

OWE GRATITUDE TO GIVE US THE OPPORTUNITY OF SAMPLE APPROVAL. PLEASE RETURN THIS FROM TO US AFTER YOURS ACCEPT.

ADD: 2F 76#, 88 Industrial Zone, Xintang pit, Henggang street,
Longgang District, Shenzhen City, CHINA

TEL: 86-755-28462992

FAX: 86-755-28462900

表格编号: IPD-213



Electrical Specifications

电 性 能 指 标		Electrical Specifications	
频率范围	2400~2500 MHz	Frequency Range	2400~2500 MHz
电压驻波比	<2.0	VSWR	<2.0
增益	2 dBi	Gain	2 dBi
输入阻抗	50 Ω	Input Impedance	50 Ω
最大功率	50W	Maximum Power	50W
机 械 指 标		Mechanical Specifications	
线材颜色	灰色	Cable Color	Grey
长度	120MM	Length	120MM
工作温度	-20℃~+85℃	Working Temperature	-20℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

实物图片:



工程2D图:

RoHS Compliant

1. 1.13灰色线

2. 镀锡

30

1

120±2

2

1.5

1.5

要求:

1. 线材外被无破裂、损伤
2. 成品须100%测试导通OK
3. 成品须100%全检OK.
4. 采用环保制程,符合ROHS要求.
5. 未注公差请以一般公差为准.

频率范围 2400-2500MHZ

增益 2DB

电压驻波比 <2.0:1

极化 Linear,Vertical

最大功率 50W

特性阻抗 50 OHM

No.	Item	Description	Qty	Part No.
1	铜管	1.2*4*1.4*1.05 铜管	1	
2	线材	1.13灰色线	1	

一般公差(GENERAL TOLERANCES)

尺寸(Dimension)	公差(Tolerance)
0-10	±0.1
10-30	±0.2
30-100	±0.3
100-300	±0.5

标准(GB)

比例尺 1:1

材料(Material) 铜管

表面处理(Plating) 镀锡

产品名称(Product Name) 产品图

客户料号(CUS No.)

产品料号(Product No.)

深圳市爱沛德电子有限公司

SHENZHEN IPD ELECTRONIC CO.,LTD



线材规格参数:

1. SCOPE:

This specification covers FEP insulated High-Frequency coaxial cable for internal wiring of electronic equipment.

[UL STYLE 1354 80℃/30V]

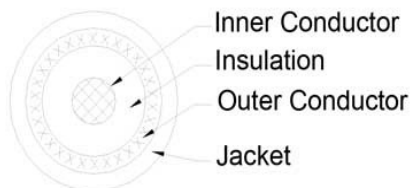
USE: Internal wiring of Class 2 Circuits of Electronic Equipment.

2. Construction :

	Item	Unit	Spec. Value
Inner Conductor	Material	---	Silver plated copper
	construction	No./mm	7/0.08
	Dia.(approx)	mm	0.24
Insulation	Material	---	FEP
	Nom. Thickness	mm	0.22
	Dia.(approx)	mm	0.68±0.05
	Color	---	Natural
Outer Conductor	Type	---	Braid
	Material	---	Silver plated copper
	Coverage	%	>93
	Dia.(approx)	mm	0.93
	Material	---	FEP
Jacket	Nom. Thickness	mm	0.10
	Color	---	Gray
	Dia.(approx)	mm	1.13 +0.10/-0.06

3. Characteristics :

Test Item	Unit	Specified Value	Note
Appearance	-	Faultless in visible	-
Temperature rating	℃	150	-
Voltage rating	V	250	-
Inner conductor resistance(at 20℃)	Ω/km	Max.597	At 20℃
Insulation resistance 1> (at 20℃)	MΩ-km	Min.1500	At 20℃
Dielectric strength	-	Dielectric core : No breakdown at AC1.5KV for 0.15sec.	Spark test
		Jacket : No breakdown at AC 1.5KV for 0.15sec.	Spark test
		No breakdown at AC 500V for 1min	Outer conductor to inner conductor
Capacitance	pF/m	Nom.98	At 1KHz
Characteristic impedance (at D-TDR)	Ω	50±2	TDR method
Attenuation	dB/m	2.0	1.0GHz
		2.9	2.0GHz
		3.6	3.0GHz
		4.2	4.0GHz
		4.7	5.0GHz
		5.2	6.0GHz



Cross-section of cable



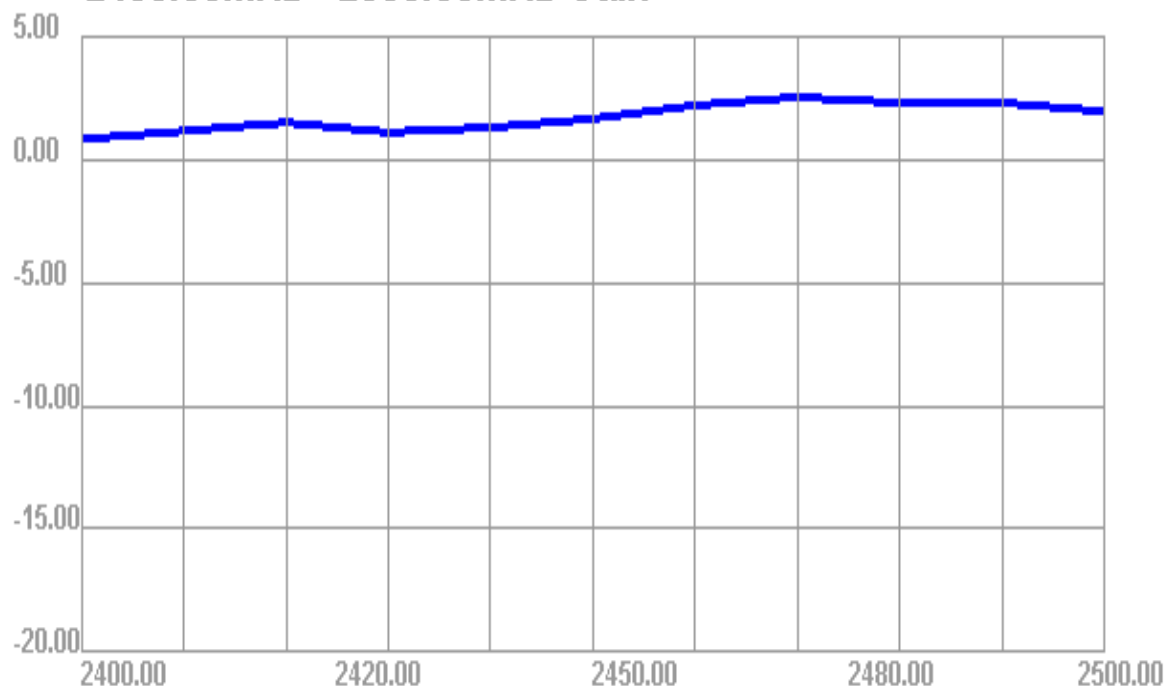
微波暗室测试:

Passive Test For 2.4G2										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	39.78	-4	0.83	-1.32	15.3	24.483	0.83	-10.89	46.87	46.67
2410	45.01	-3.47	1.15	-1	17.637	27.376	1.15	-10.63	46.85	46.74
2420	49.83	-3.03	1.5	-0.65	19.521	30.306	1.5	-10.33	46.98	46.85
2430	46.94	-3.28	1.11	-1.04	18.609	28.33	1.11	-10.75	47.05	46.99
2440	49.38	-3.06	1.3	-0.85	19.868	29.515	1.3	-10.39	47.31	47.29
2450	54.53	-2.63	1.65	-0.5	22.425	32.107	1.65	-9.46	47.72	47.63
2460	60.94	-2.15	2.2	0.05	25.477	35.465	2.2	-8.54	47.76	47.66
2470	65.93	-1.81	2.53	0.38	27.738	38.19	2.53	-7.78	47.73	47.52
2480	66.16	-1.79	2.3	0.15	28.176	37.981	2.3	-8.02	47.76	47.52
2490	69.61	-1.57	2.31	0.16	29.922	39.684	2.31	-8.15	47.89	47.63
2500	68.4	-1.65	1.95	-0.2	29.267	39.134	1.95	-7.99	47.75	47.52

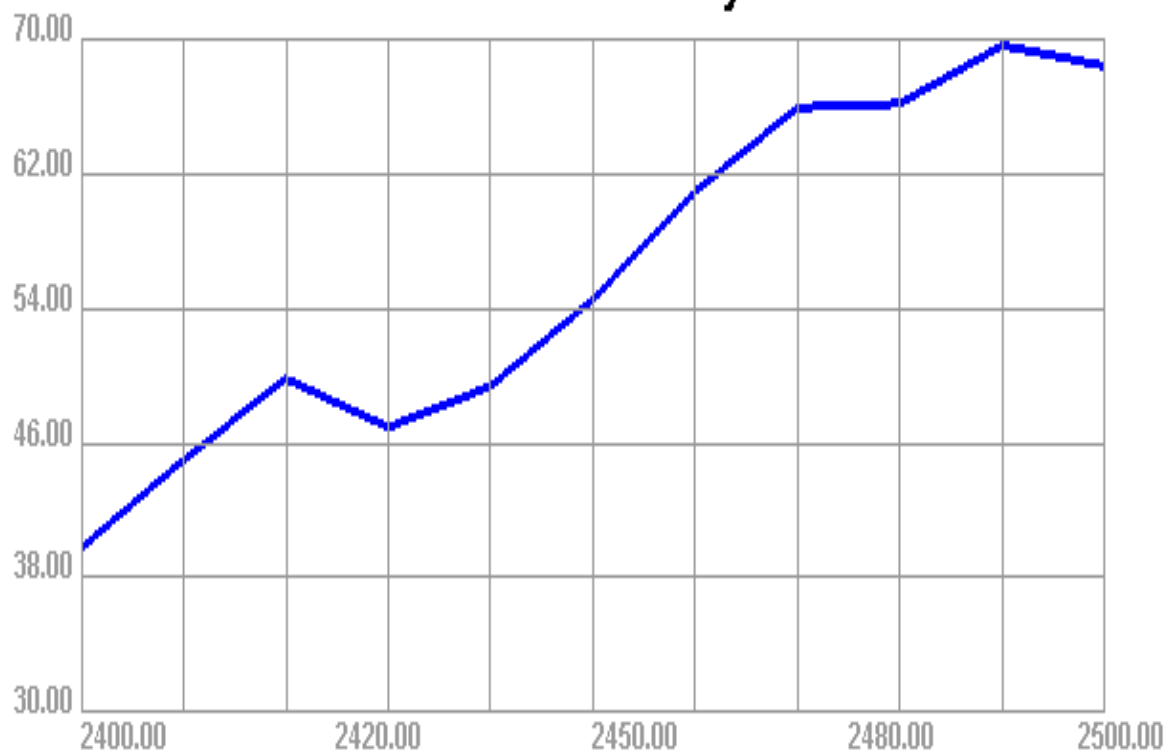
Application Information	
O4Version	4.95.303
TotalTime	3m 13s 391ms
AdditionalInfor	NULL



2400.00MHz - 2500.00MHz Gain

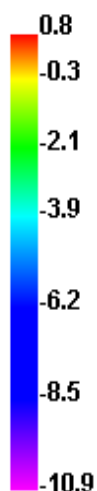
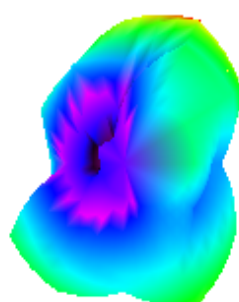


2400.00MHz - 2500.00MHz Efficiency

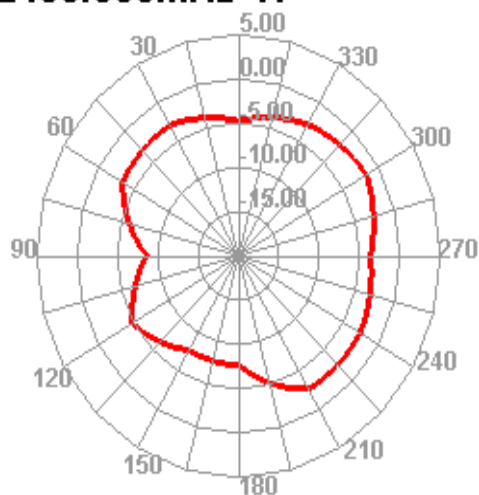




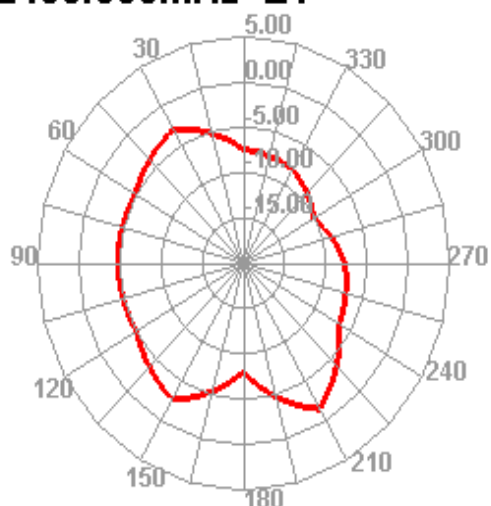
2400.000MHz



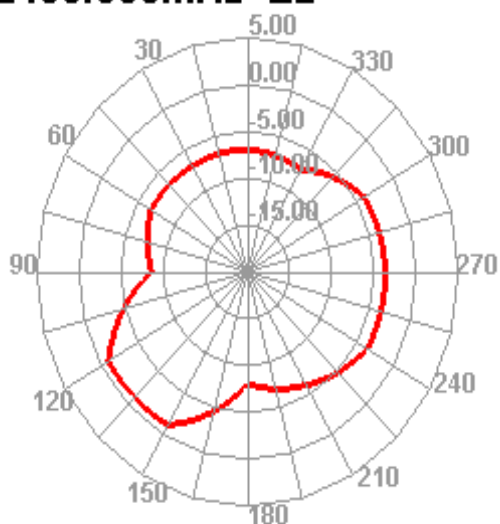
2400.000MHz H



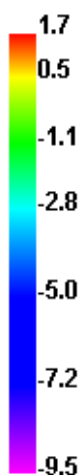
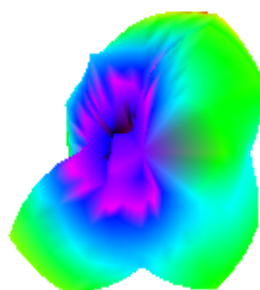
2400.000MHz E1



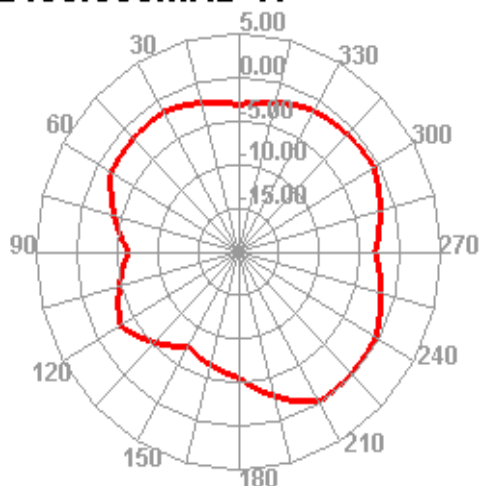
2400.000MHz E2



2450.000MHz

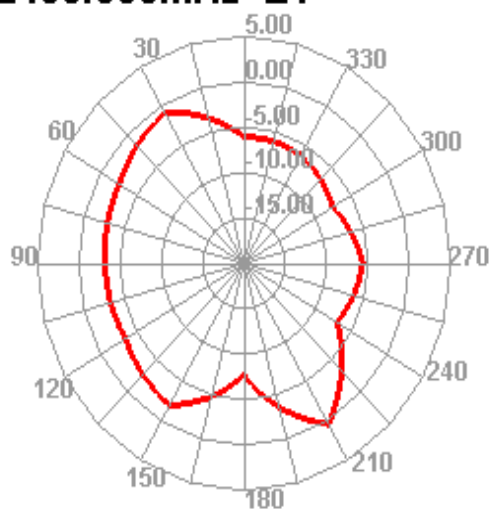


2450.000MHz H

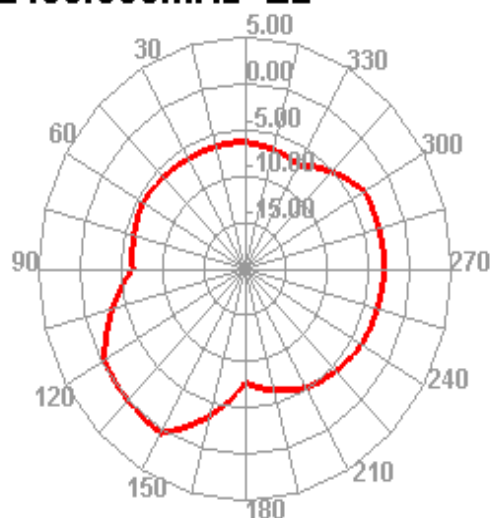




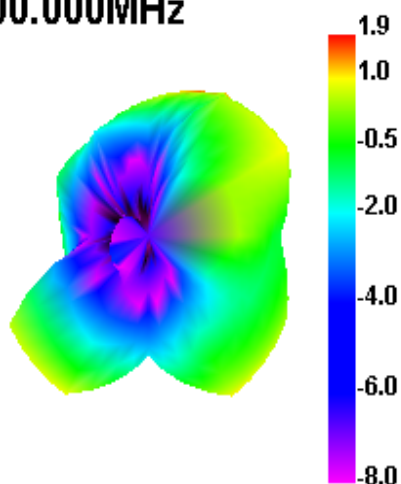
2450.000MHz E1



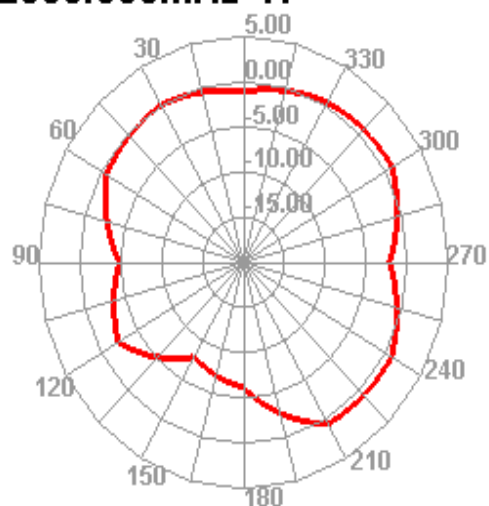
2450.000MHz E2



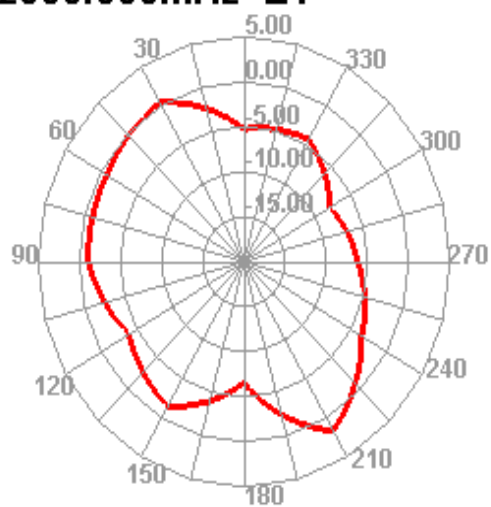
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

