



Shenzhen Yingjiachuang Electronic Technology Co., Ltd.

<http://www.szsyjc.com>

APPROVAL SHEET

CUSTOMER NAME 客户名称	力芒科技（深圳）有限公司 Limang Technology (Shenzhen) Co., Ltd	
CUSTOMER P/N 客户料号	C. G. 5. 8G-IPEX -YJC-15	
PART NAME 品 名	2. 4G/5. 8G B L A C K P C B a n t e n n a L=150mm	
P/ N 料 号	YJC-6N150-B32	
APPROVAL REV. 版 次	A1	
DELIVERY DATE 送样日期	2022 年 11 月 21 日	
PREPARED BY 承 办	吴佳雄	
CHECKED BY 审 核	方文锋	
APPROVED BY 核 准	肖 汉	
Customer Approved 客 户 承 认		
Prepared By 承 办	Checked By 审 核	Approved By 核 准

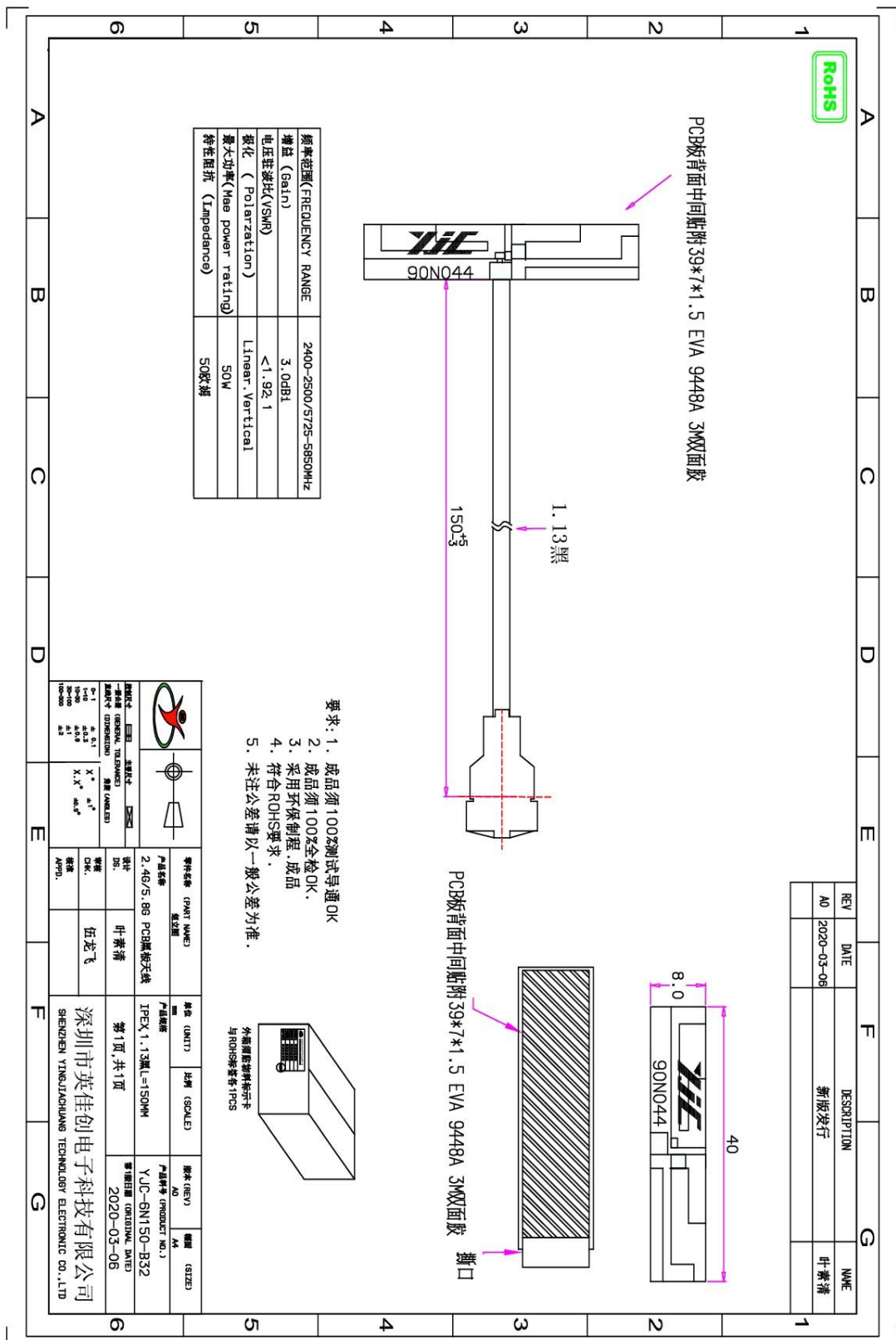
总部地址：深圳市光明区马田街道油麻岗路 11 号宏域光明谷 C 栋
Address: Building C, Hongyu Guangming Valley, No. 11 Youmagang Road, Matian Street, Guangming District, Shenzhen

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天线平面图:
Antenna plan:





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Electrical Specifications

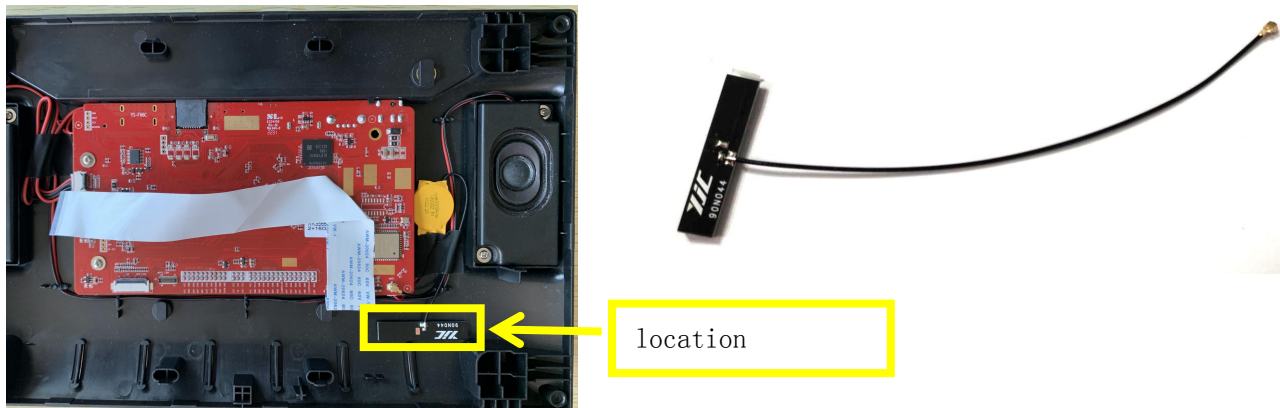
电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500/5725-5850MHz	Frequency Range	2400-2500/5725-5850MHz
电压驻波比	<1.92:1	VSWR	<1.92:1
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	3 dBi	Gain	3 dBi
机 械 指 标		Mechanical Specifications	
线材颜色	黑色	Cable Color	Black
接口形式	XD	Input connector	XD
线材长度	150mm	Cable length	150mm
工作温度	-20℃~+70℃	Working Temperature	-20℃~+70℃
工作湿度	20%~80%	Working Humidity	20%~80%



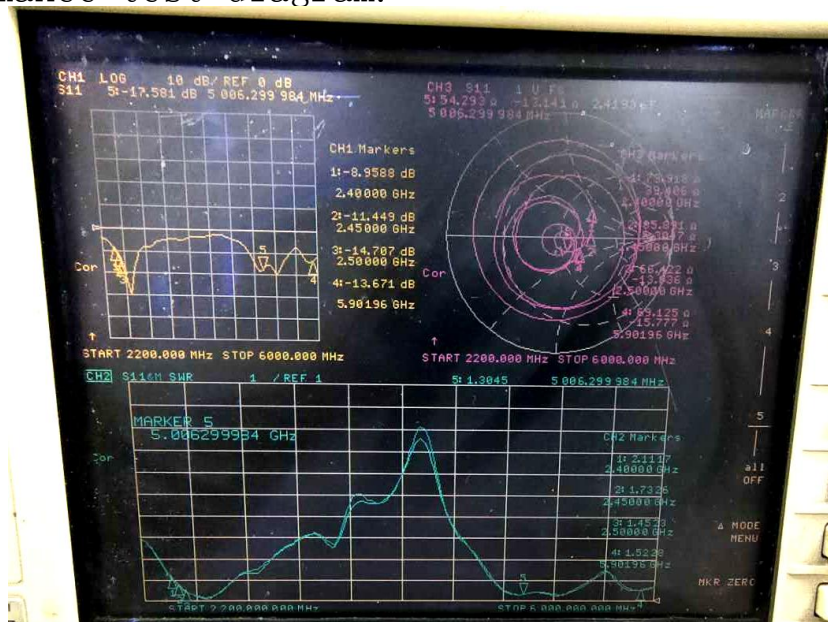
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Physical drawing and location of antenna



Antenna performance test diagram:



2D、3D test data (2.4G):

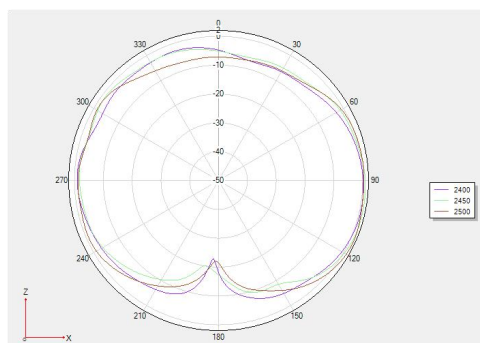
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	53.7	2.71
2410MHz	54.58	2.49
2420MHz	54.08	2.52
2430MHz	52	2.76
2440MHz	49.89	2.74
2450MHz	50.35	3.0
2460MHz	49.66	2.3
2470MHz	50.93	2.79
2480MHz	50.58	2.47
2490MHz	54.95	2.7
2500MHz	53.7	2.92



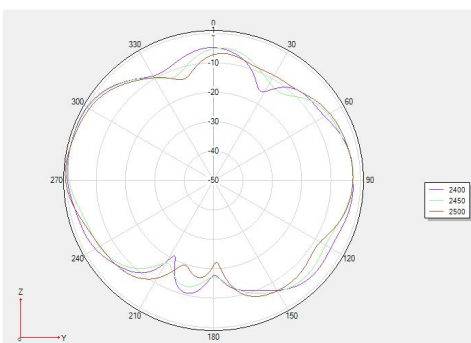
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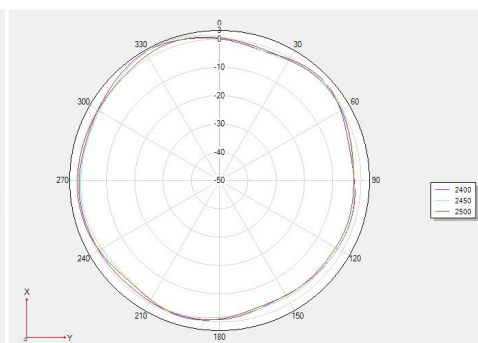
Phi 0 2D :



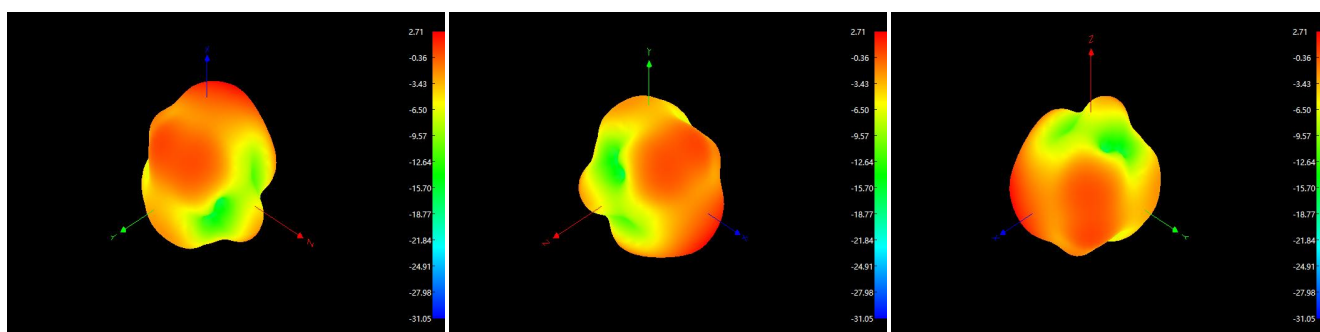
Phi 90 2D



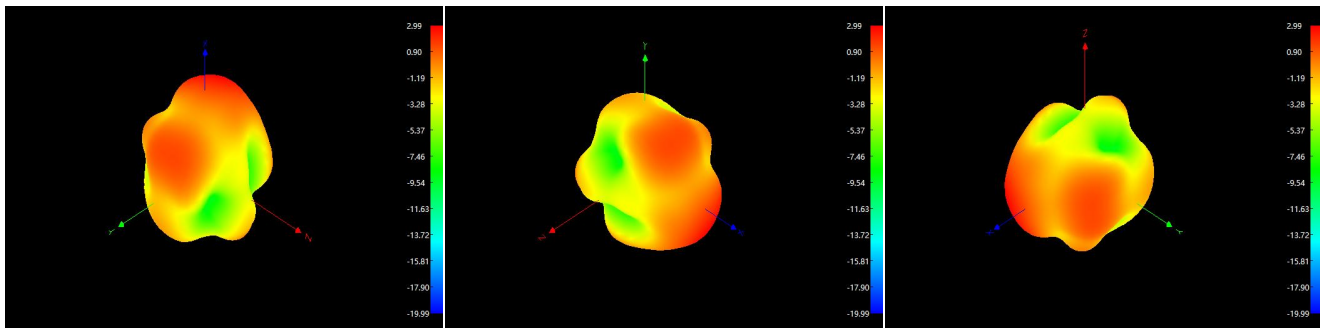
Theta 90 2D



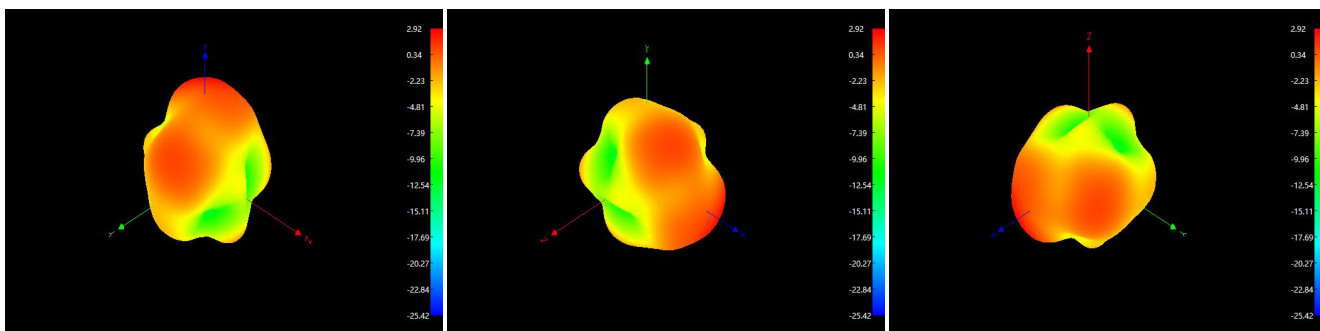
3D 2400:



3D 2450:



3D 2500:





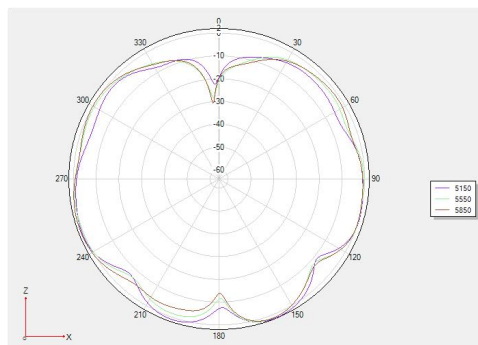
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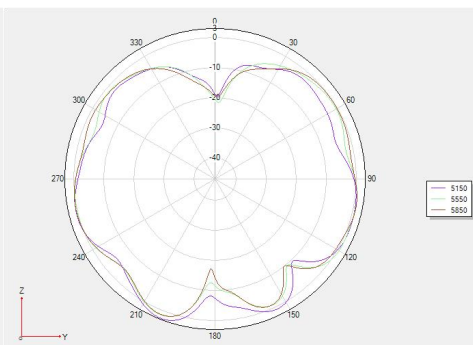
2D、3D test data(5.8G):

Frequency	Efficiency (%)	Gain. (dBi)
5150MHz	54.42	3.0
5250MHz	56.22	2.83
5350MHz	55.31	2.45
5450MHz	53.68	2.41
5550MHz	51.38	2.14
5650MHz	54.57	2.27
5750MHz	55.77	2.71
5850MHz	55.92	2.33

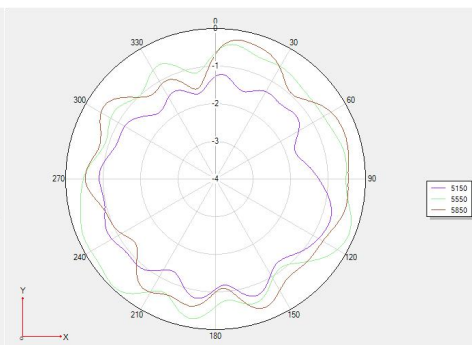
Phi 0 2D :



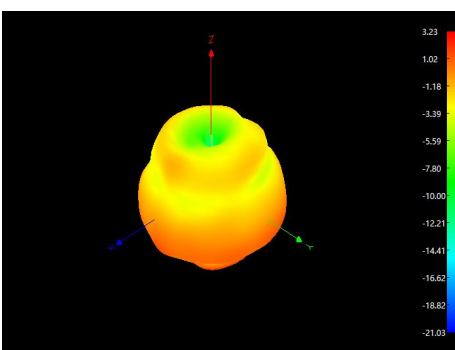
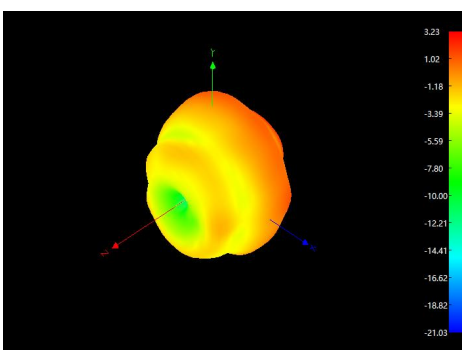
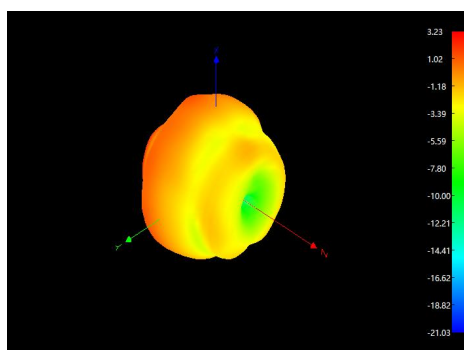
Phi 90 2D



Theta 90 2D



3D 5150:

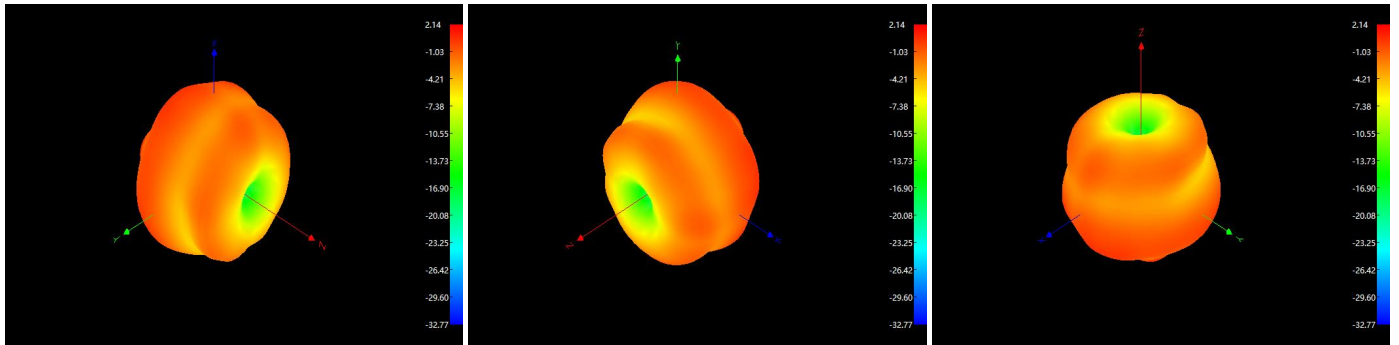




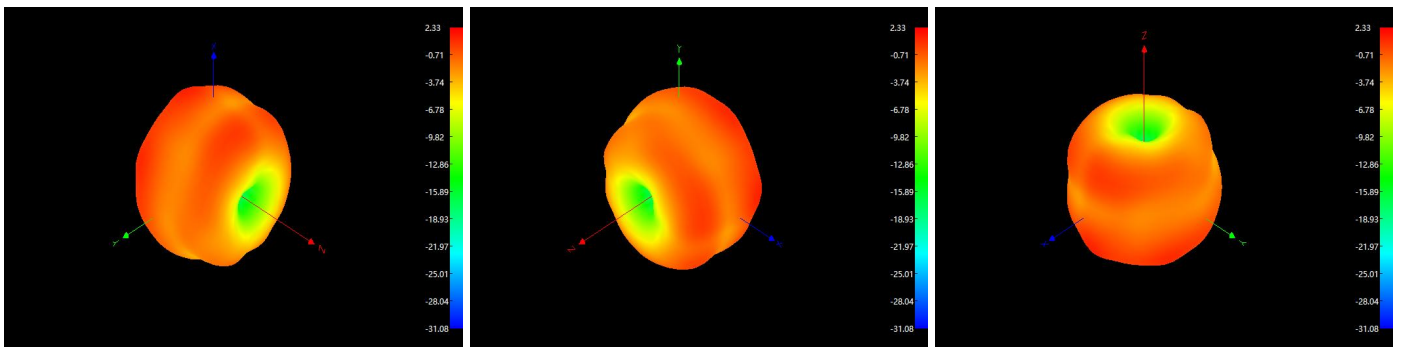
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3D 5550:



3D 5850:





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Product Type		1.13 Single silver thread		
Structure Drawing				
Structure Characteristics				
Structure	Item	Standard Value		
Inner Conductor	Material	Silver plated copper wire		
	(根/mm/Composition(No./mm)	7/0.08±0.005		
	Nom.Dia(mm)	Φ0.24±0.01		
Insulation	Material	/FEP		
	Nom.Dia(mm)	Φ0.7±0.03		
Outer Conductor	Material	Tinned copper		
	From	/Weaving		
	Shielding rate	≥90%		
	Nom.Dia(mm)	Φ0.92±0.03		
Jacket	Material	/FEP		
	Nom.Dia(mm)	Φ1.13±0.05		
Electrical Characteristics				
Item	Standard Value	Item	Frequency	Standard Value
Impedance (Ω)	50±3	Attenuation@20 ℃ (dB/100m)	1GHz	≤2.23
Capacitance(pF/m)	98		2GHz	≤3.15
Tensile strengthkgf/mm²	1.76		3GHz	≤3.96
VSWR	≤1.40@0-6GHz		4GHz	≤4.6
Dielectric Strength (A.C V/1min)	1000		5GHz	≤5.15
(MHz) Max.oper. frequency	6000		6GHz	≤5.7
Dependability				
Min.Bending Radius/Single		mm	4	
Min.Bending Radius/Repeated		mm	8	
Operating Temperature		℃	-20~+80	
Packing				
Packing Mode	1000 (m/盘) Reel			
Trips for Use				
Storage Environment	30℃, 20-65%			
Teflon Shrink	绝缘层收缩≤0.2mm; 护套层收缩≤0.3mm The insulation layer shrinks ≤ 0.2mm; the sheath layer shrinks ≤ 0.3mm			
Processing temperature	250℃~260℃的情况下, 可短时间承受; 300℃以上会出现热分解现象 In the case of 250 °C ~ 260 °C, it can withstand for a short time; Thermal decomposition occurs above 300℃			
The best save cycle	2 个月, 2 个月以上锡效果变差,但电性能不受影响, 夏季高温高湿环境开剥后需尽快流转 2 months, more than 2 months tin effect deteriorates, but the electrical properties are not affected, summer high temperature and high humidity environment after peeling need to flow as soon as possible			