

JYC ELETRONI CO.,LTD

产 品 规 格 书

PRODUCT SPECIFICATION SHEET

Customer: _____

Product Name: WIRE CABLE 85mm Antenna

Product code: Antenna-TX-

Customer code: _____

Sample date: 2024-6-13

Confirm:

Approval	Quality	Engineer	Signature
David	Henry	lisa	

Customer Confirm:

Approval	Quality	Engineer	Signature
Confirm result: ☐ PASS ☐ NG ☐ Others			

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SPECIFICATION ITEM

Item	Description
1.....	SPEC
2.....	SPEC ITEM
3.....	Engineer drawing
4.....	Performance

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RF Antenna Cable Assembly

Specification

1. Electrical Properties

- 1.1 Frequency Range.....2.4GHz-2.5GHz
- 1.2 Impedance.....50 Ω Nominal
- 1.3 VSWR.....1.92:1MAX
- 1.4 Return Loss.....-14dB Max
- 1.5 Gain(peak) 4.52dBi
- 1.6 Cable loss.....0.02dBi Max
- 1.7 Polarization.....Linear Vertical
- 1.8 Conn.....IPEX 1.13

2. Physical Properties:

- 2.1 Antenna Material.....Cu
- 2.2 Operating Temp.....-20°C- +65°C
- 2.3 Storage Temp.....-30°C- +75°C

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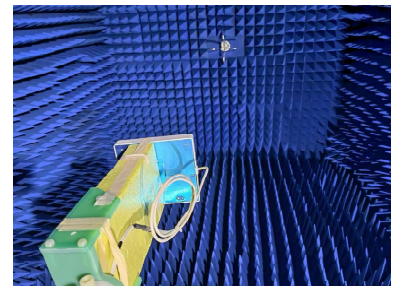
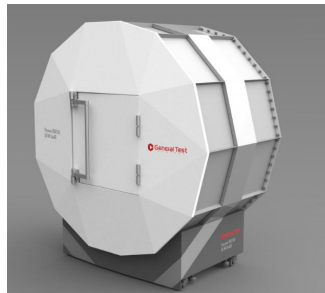
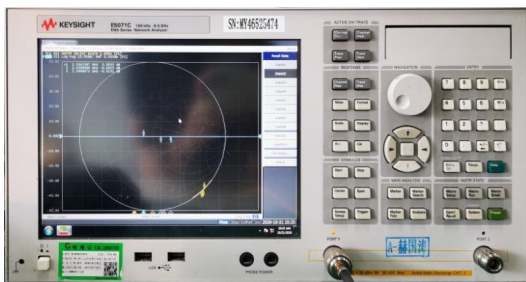
Antenna Test equipment SPEC:2.4GHz Bluetooth Antenna Product



测试环境

Testenvironment

S 参数 (S-parameter)	1. 电压驻波比 (VSWR) 2. 回波损耗 (RrtunLoss)	网络分析仪: Agilent8753ES
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 屏灭/屏亮	1. 暗室: 5*3*3m (3D) Chamber 2. 综测仪: Agilent8960, CMW500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 5*3*3m (3D) Chamber 2. 网络分析仪: Agilent8753ES

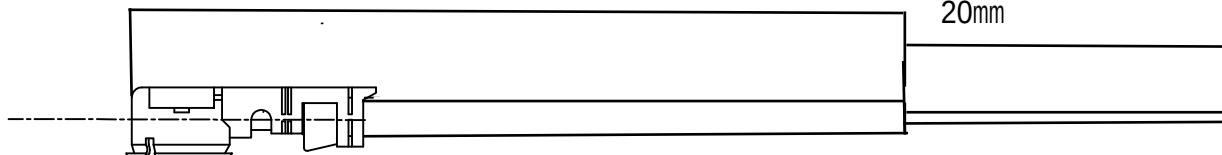


ROHS

REV	ECN NO.	DESCRIPTION	DATE	DESIGNED
01	NO	Trial-produce first issued	2021-11-11	Sean

64mm±2

20mm

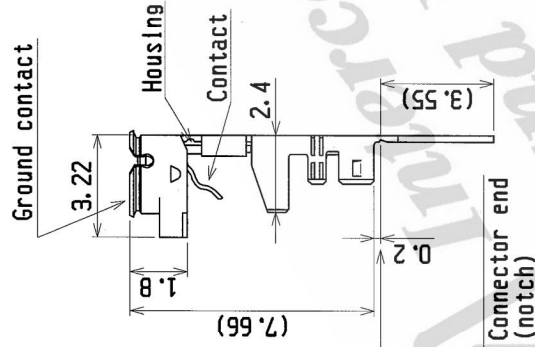
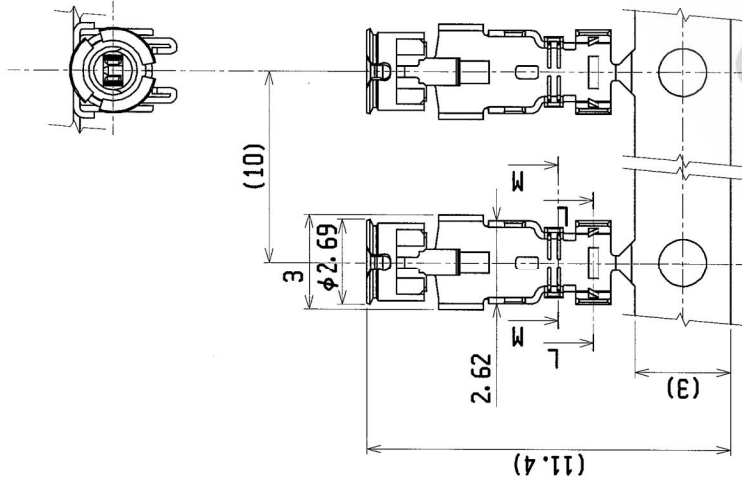


- 1.100% past electronic croute of test
2. Impedance:50HOM
- 3.The material is past RoHS
- 4.I-PEX to I-PEX of pulling force is>20N
- 5.Cable color is black RG1.37coax cable
- 6.I-PEX Reverse to I-PEX cable length is 85mm
- 7.Temperature:250degree
- 8.Voltage:300V
- 9.VSWR: 1.3MAX<0-3.0GHZ
- 10.Electronic Insulation:500v

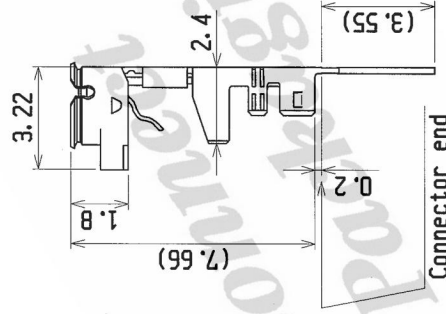
I-PEX of product details
Housing:Durane-PBT
Contact:C5210-H-Phosphor bronze
Ground Contact:C5191-1/2H-Phosphor bronz

②	1PC	Cable	RFX137BRDXS008	Black RG 1.37coax cable	500 mm			
①	1PC	CONN	20351-112R-37	IPEX 1.37 MHF PLUG				
NO	Q`TY	NAME	PART`S NO.	DESCRIPTION	REMARK			
THIRD ANGLE PROJECTION 			DRAWING APPROVAL DRAWN BY: Sean			JYC ELECTRONIC CO. LTD		
TOLERANCE UNLESS SPECIFICATION:			CHK`D BY: Sean		CUSTOMER:	CUS` P/N: TCA48 TW-MSJ-85-238 BLACK		
X .		±5.0	APP`D BY: Jesse		P/N: JY10619			
.X		±1.0	PART NAME: RG1.37 GR cable ipex to open,L=85MM					
.XX		±0.5						
.XX		N/A						
Angle		±1.0°						
SCALE: X : X			SHEET: 1 OF 1			CUS` REV: 01		YL` REV: 01

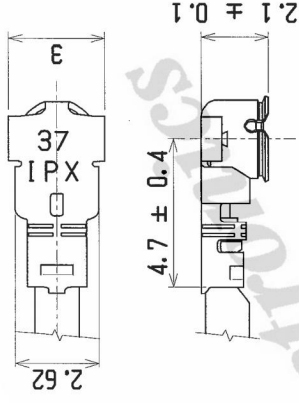
PART NO.
20351-1...R-37



Part No. 20351-101R-37
20351-102R-37
For hand tool
(with notch)

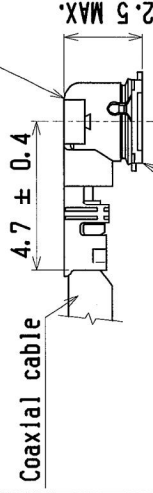


Part No. 20351-111R-37
20351-112R-37
For semi auto
termination machine
(without notch)



Cable Ass'y

Plug
P/N 20351-1...R-37



Part No. 20279-001E-01
20441-001E-01

MATING

I-PEX

Interconnect
and Packaging Electronics
TOKYO, JAPAN

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

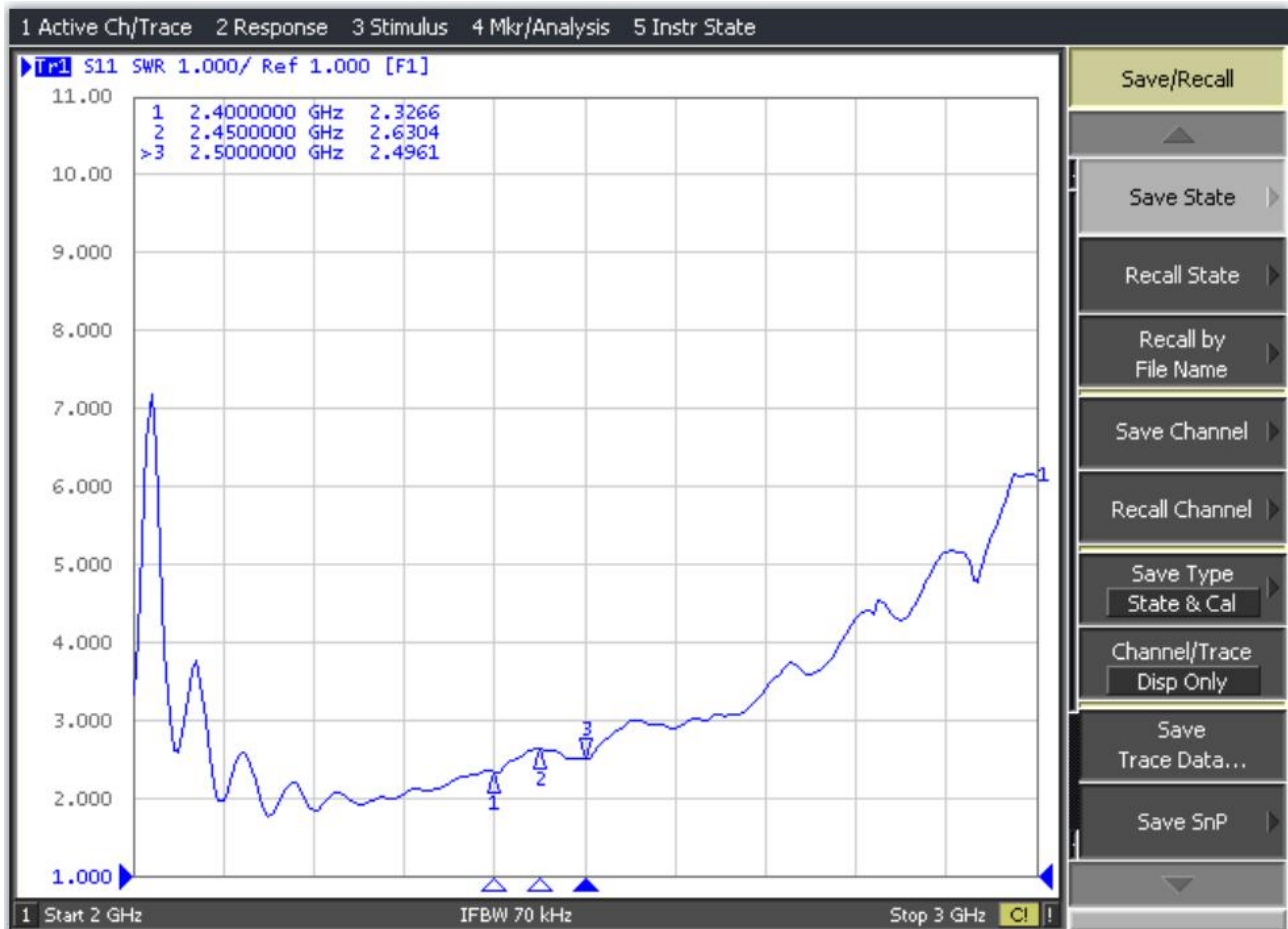
TITLE
HF series micro coaxial connector plug
vertical (ground contact : gold plating)

General

SCALE	UNIT	DWG. No.	SHEET	REV.
6/1	mm	20351	1/3	11

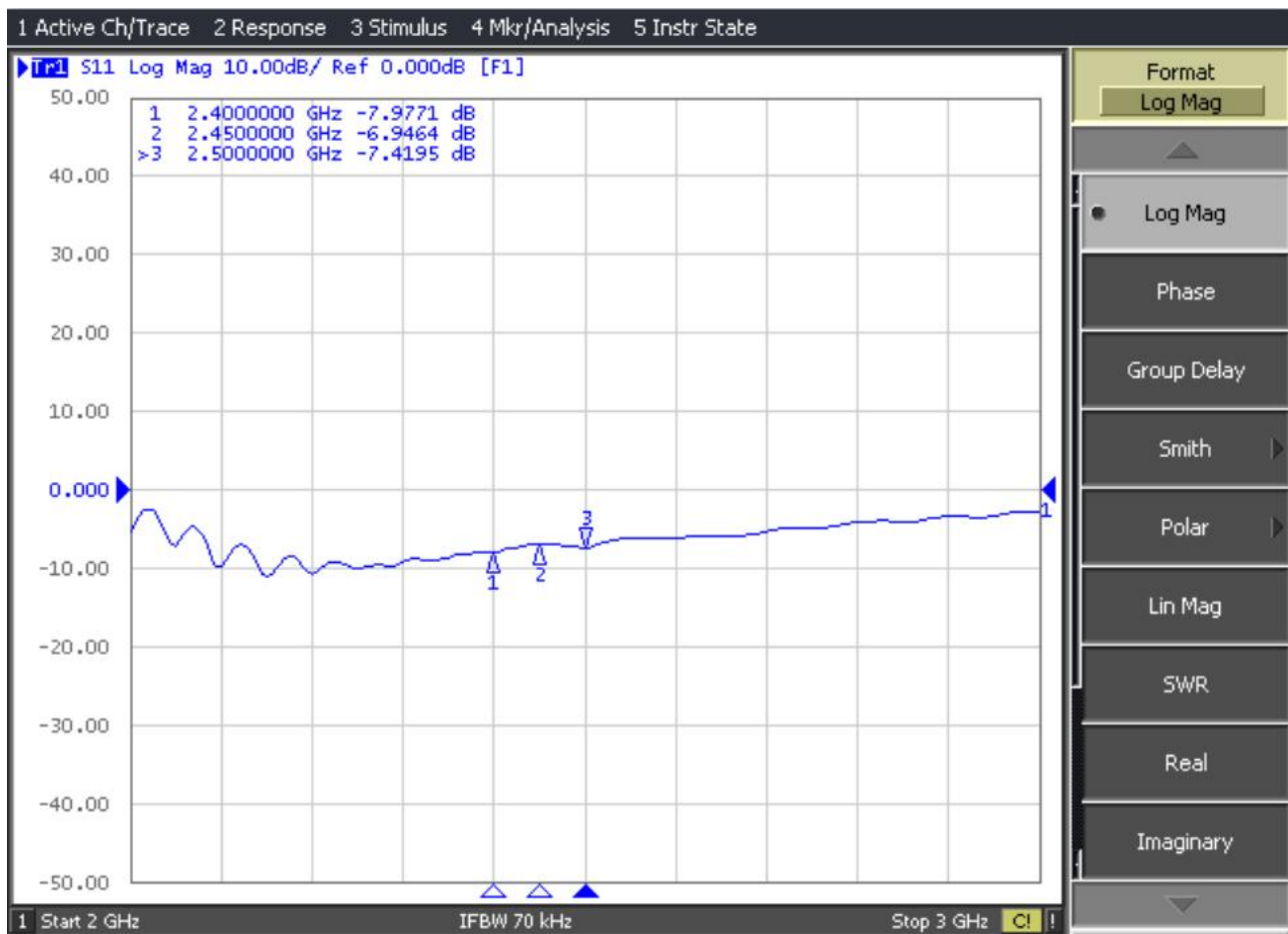
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1.0 驻波比V.S.W.R



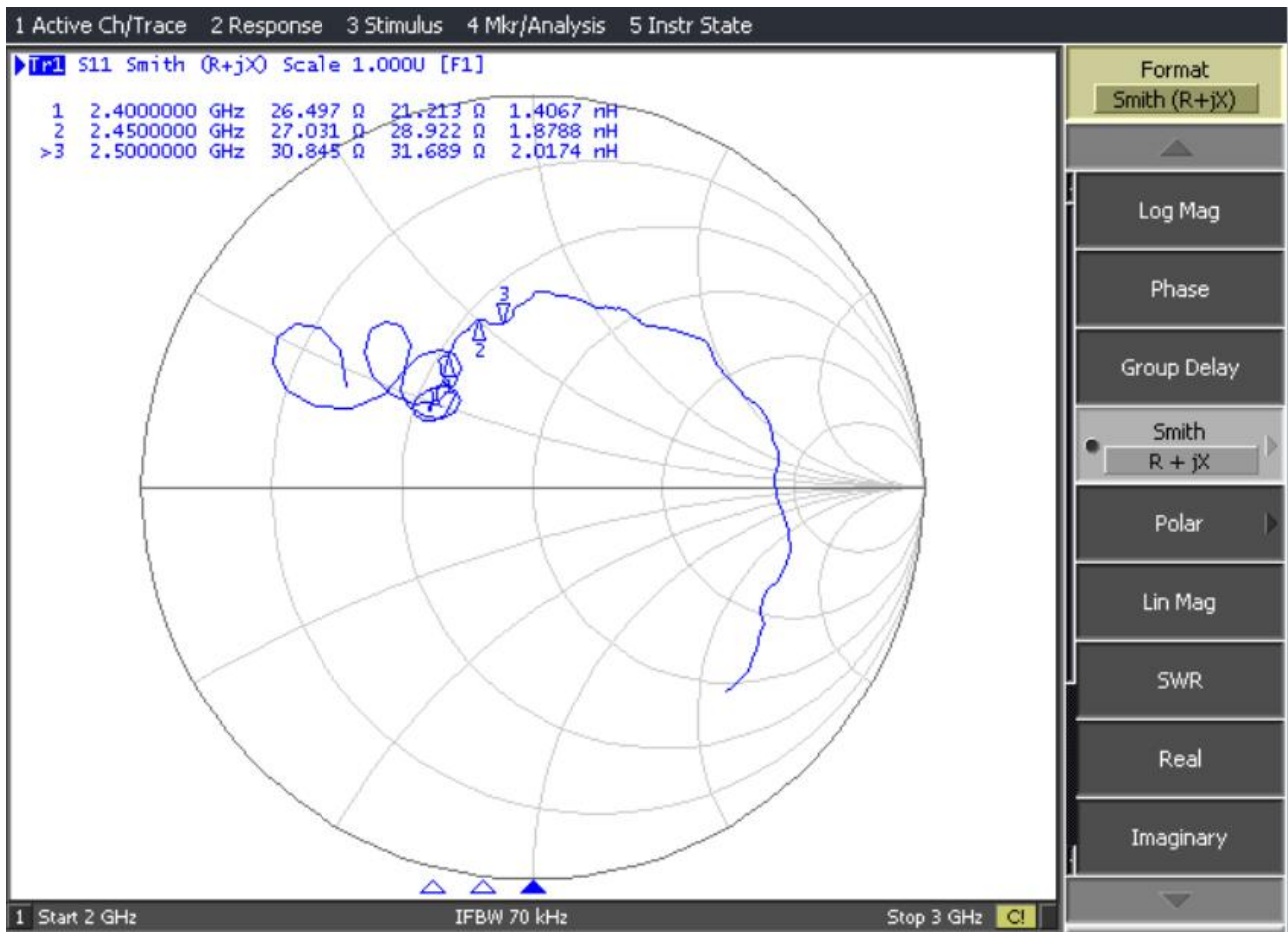
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2.0 回波损耗 Log mag



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3.0 史密斯图 Smith

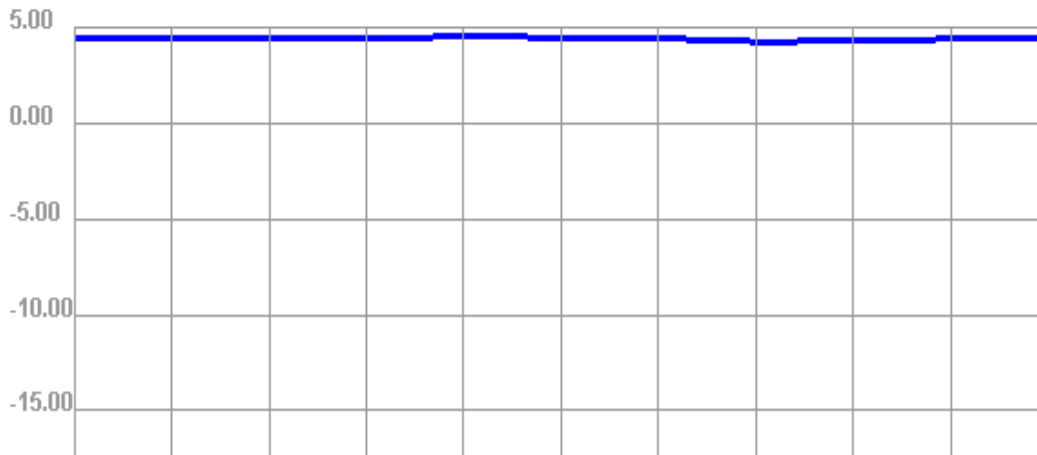


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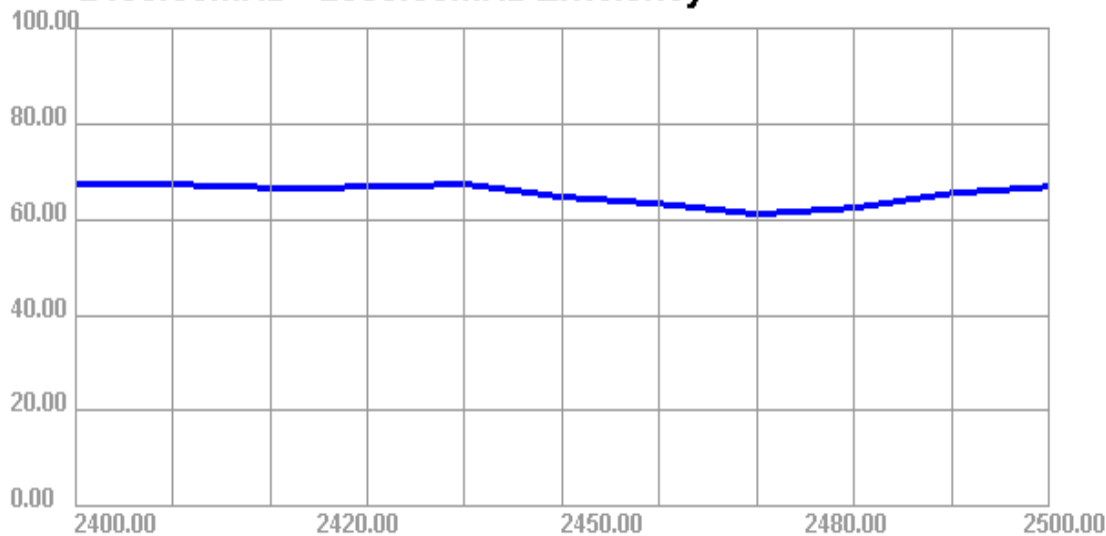
2.4Ghz Performance data:

Passive Test For WIFI-2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)
2400	67.63	-1.7	4.38	2.23	18.931	48.703	4.38	-13.65	6.08	0
2410	67.35	-1.72	4.43	2.28	18.849	48.497	4.43	-12.84	6.14	0
2420	66.66	-1.76	4.37	2.22	18.549	48.111	4.37	-12.73	6.13	0
2430	66.77	-1.75	4.39	2.24	18.685	48.088	4.39	-13.08	6.14	0
2440	67.39	-1.71	4.52	2.37	18.854	48.534	4.52	-12.7	6.23	0
2450	64.72	-1.89	4.46	2.31	18.256	46.466	4.46	-12.34	6.35	0
2460	63.29	-1.99	4.41	2.26	17.792	45.5	4.41	-11.99	6.4	0
2470	61.15	-2.14	4.25	2.1	17.359	43.79	4.25	-12.64	6.38	0
2480	62.42	-2.05	4.27	2.12	17.806	44.618	4.27	-13.14	6.31	0
2490	65.51	-1.84	4.38	2.23	19.041	46.469	4.38	-12.82	6.22	0
2500	66.84	-1.75	4.41	2.26	19.402	47.435	4.41	-12.77	6.16	0

2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency



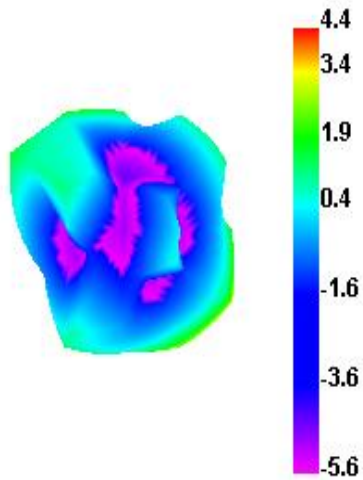
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Frequency:2.40GHz

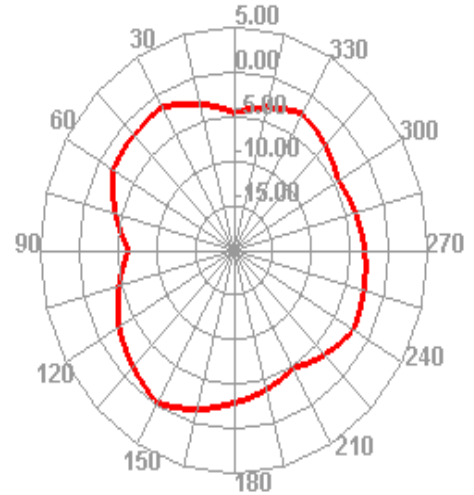
Peak Gain:4.38dBi

Efficiency:67.63%

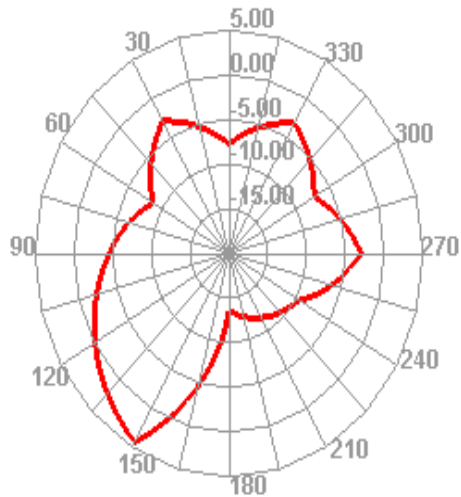
2400.000MHz



2400.000MHz H

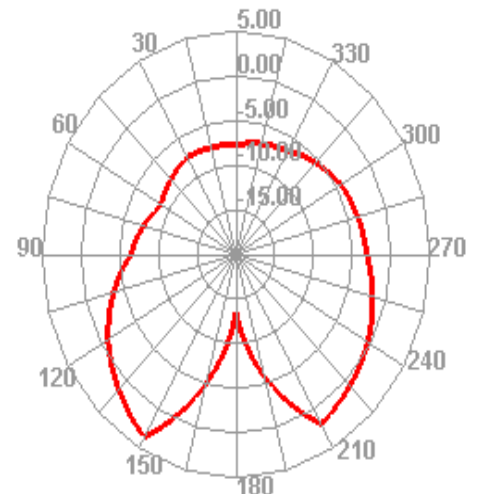


2400.000MHz E1



~END~

2400.000MHz E2



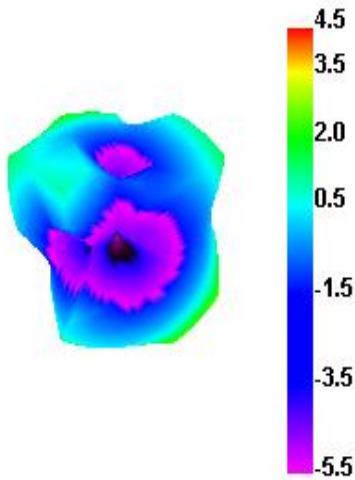
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Frequency:2.45GHz

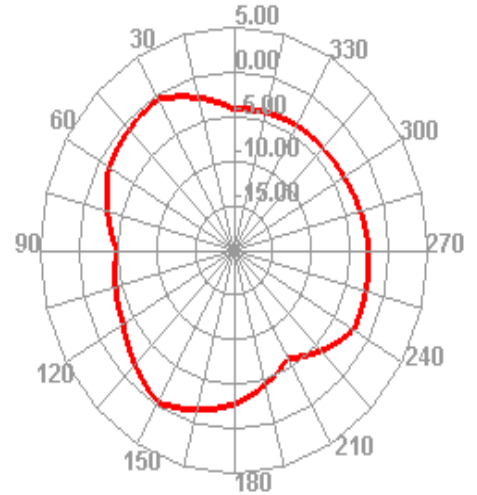
Peak Gain:4.46dBi

Efficiency:64.72%

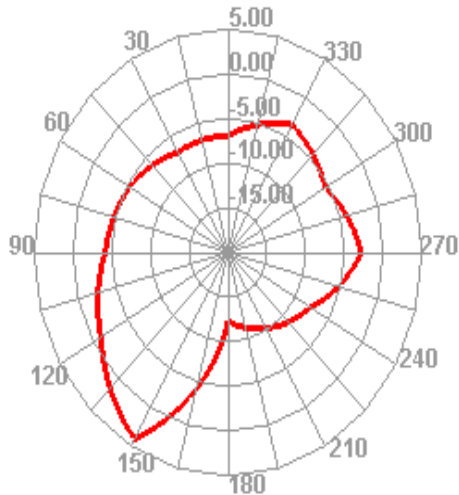
2450.000MHz



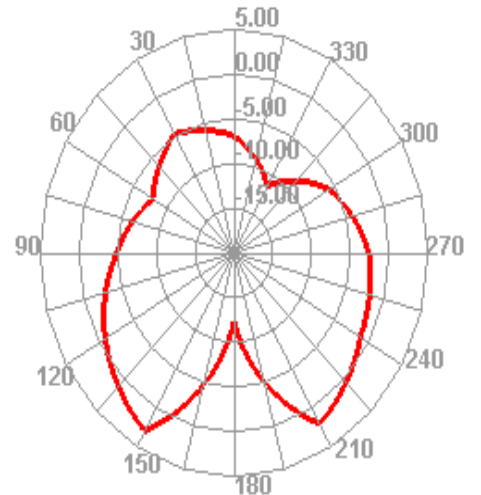
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



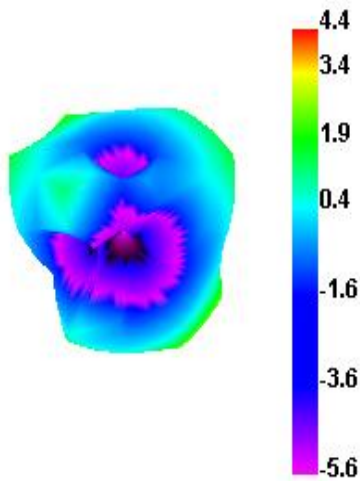
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Frequency:2.50GHz

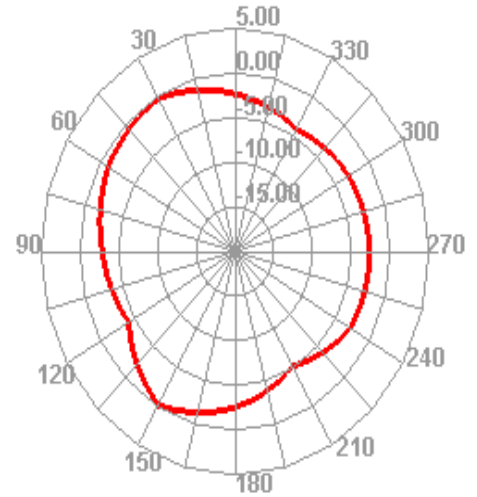
Peak Gain:4.41dBi

Efficiency:66.84%

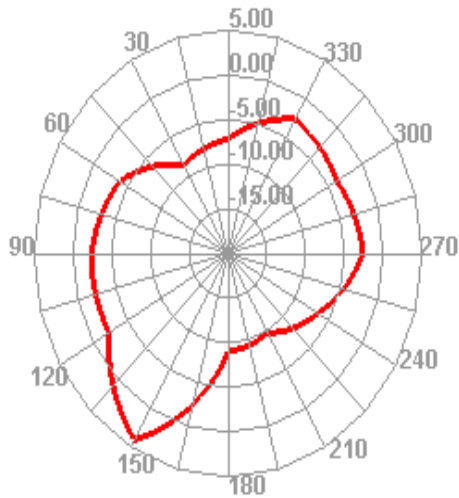
2500.000MHz



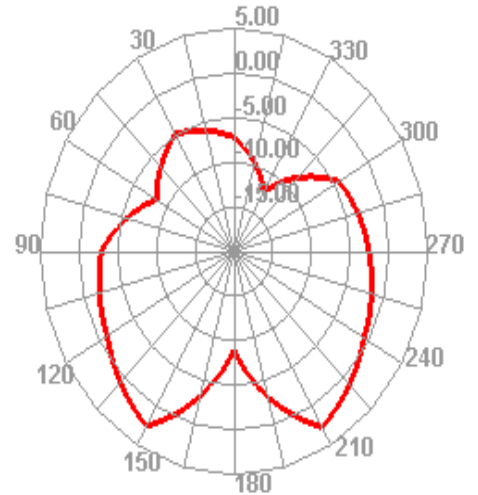
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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Company Profile

JYC ELECTRONIC CO.,LTD. is a professional production and processing company specializing in various types of RF connector, antennas, coaxial processing, IPEX connectors, GPS antennas, GSM antennas, 2.4G antennas, research and development, and other products. It has a complete and scientific quality management system. The integrity, strength, and product quality of JYC ELECTRONIC CO.,LTD. have been recognized by the industry.

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