

深圳市宙达通讯电子有限公司

产 品 规 格 书

Product specification

客 户: 中天极光

CUSTOMER:

客 户 案 号: ZD-1068

CUSTOMER P/N:

本 厂 编 号: SC-N794FPC-L50

OUR MODEL NO:

品 名 / 规 格: 2.4G-5.8G-794 内置天线

SPECIFICATIONS:

样 品 数: 5

Q' TY:

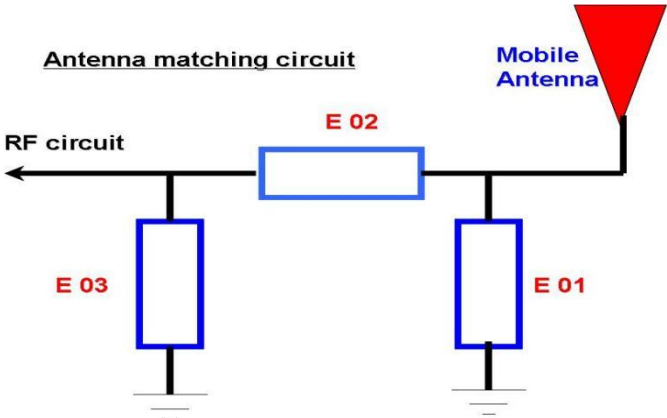
日 期: 2024-7-19

深圳市宙达通讯电子有限公司			客户承认
工程 Engineering	品保 Quality	核准 Approved	签名（盖章）
谢工	黄小姐	高工	

1. Technical Specification

A. Electrical Characteristics	
Working Frequency Range	2400~5800MHz
S.W.R.	2400~5800MHz:<3.0
Antenna Gain(avg.)	2400~5800MHz: 3dBi±0.5dBi
Impedance	50ohm
B. Material	
brass	
C. Environmental	
Operation Temperature	-45℃~+85℃
Storage Temperature	-45℃~+85℃

2. Matching Circuits



Element	Value	Vender
E1(0402)	OPEN	/
E2(0402)	SHORT	50 Ω
E3(0402)	OPEN	/

注:匹配未更改。

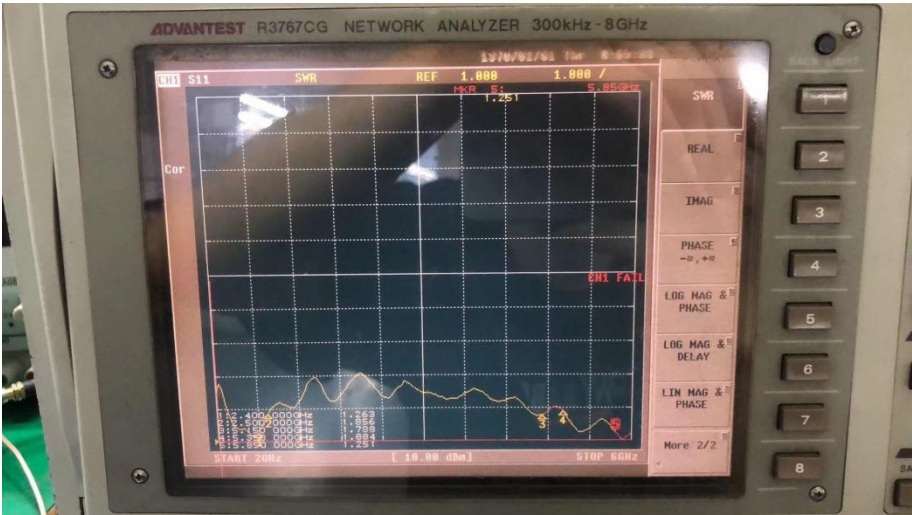
3. Curing antenna S11 Testing Result.

The S11 parameter was performed using a Agilent 8753D Network Analyzer and BEST’S test fixture that was using customer-providing device.

VSWR (Voltage standing wave ratio)

The Voltage Standing Wave Ratio (VSWR) is an indication of how good the impedance match is. VSWR is often abbreviated as SWR. If the transmission line and the antenna are not matched, the antenna will not accept all the power from the transmission line. The part it does not accept is reflected back and forth between the transmitter and the antenna. This sets up a fixed wave pattern along the line which we can measure and which is called the voltage standing wave ration(VSWR).The VSWR (ratio of maximum voltage to the minimum voltage along the line)expresses the degree of match between the transmission line and the antenna. When the VSWR is 1 to 1(1:1) the match is perfect and all the energy is transferred to the antenna prior to be radiated. When the VSWR is 1.5:1, 96% of the power reaches the antenna. By definition VSWR can never be less than 1.VSWR and reflected power are different ways of measuring and expressing the same thing. A high VSWR is indication that the signal is reflected prior to being radiated by the antenna.

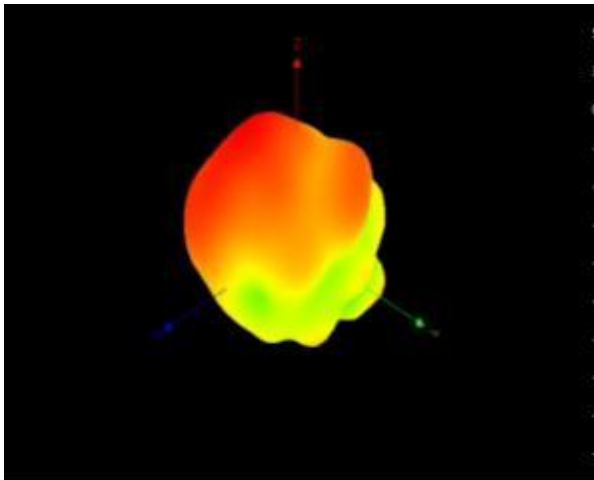
驻波 VSWR



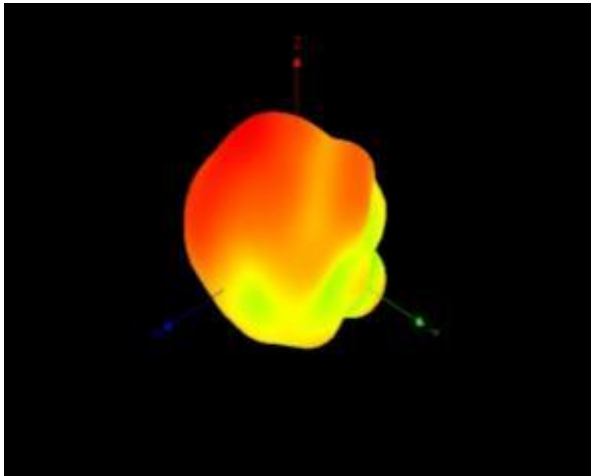
Marker	2400MHz	5000MHz	5350MHz	5800MHz
S.W.R	<3.0			

4.测试 3D 报告

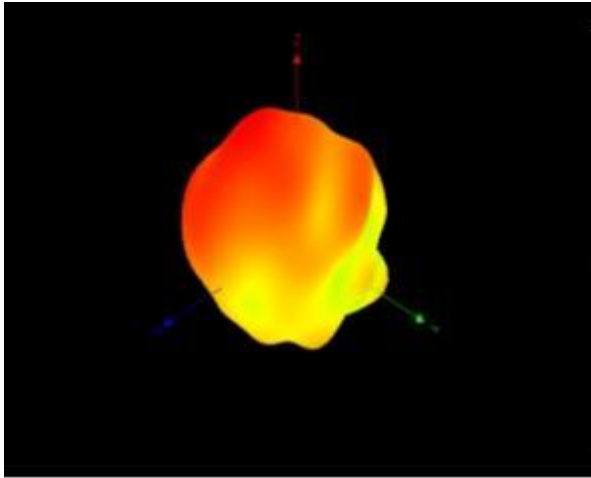
频率：2400MHZ 增益：3.05dbi



频率：5000MHZ 增益：3.2dbi

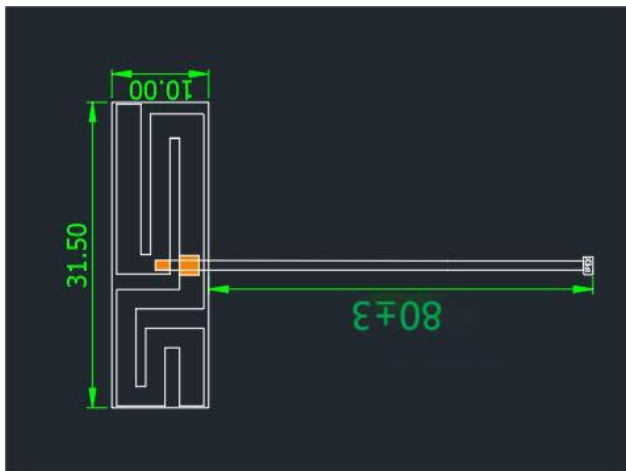


频率：5800MHZ 增益：3.4dbi



Frequency (MHz)	Efficiency (%)	Peak Gain / dB
2400	62.6	3.05
2450	65.7	3.38
2500	64.1	3.20
5000	62.2	3.2
5350	60.2	2.98
5800	62.3	3.4

5. Product appearance drawing



Product 2.4G- built-in FPC 1.13 black cable length 50MM