

东莞市千木电子科技有限公司

承认书

客 戶: _____
品 名: 2.4G 2DBi Antenna
料 號: HX-A03
客户料号: _____

客戶確認			供應廠商	
工程部	品保部	採購部	核准	送樣人
			袁 2024/12/18 静	

Compatible

Technical drawing of a probe assembly. The main view shows a side profile with dimensions: total length 80 ± 2.00 , distance from tip to center of the probe body 60 ± 1.00 , and distance from the probe body to the contact tip 80 ± 5 . The contact tip has a diameter of 2.0 and a length of 1.0 . The probe body has a diameter of 2.0 and a length of 2.0 . The contact tip is labeled "剥线镀锡" (striated and tinned). Callouts 1 through 6 point to specific features: 1 (tip), 2 (probe body), 3 (probe body), 4 (probe body), 5 (probe body), and 6 (contact tip). A detail view shows the contact tip with dimensions: 13 (height), 9.3 (width), 12 (width), and 10.5 (width). A cross-section view shows the contact tip with a diameter of $\phi 9.35 \pm 0.10$. The drawing is signed "东莞市千木电子科技有限公司" (Dongguan Qianmu Electronics Technology Co., Ltd.).

6	HX-SR1213-01	SR	PC+ABS	1
6	HX-RG113-01	线材	RG1.13	1
5	HX-AN0104-05	铜管	黄铜 Ø1.4*24.5*1.2	1
4	HX-AN01-1213Z	定位柱	黑	1
3	HX-AN57-01	连接筒	PA-6 黑色	1
2	HX-AN57-02	连接头	PA-6 黑色	1
1	HX-AN57-03	塑胶本体	TPE 黑色	1
No.	Part Number	Name	Material	Q'ty

东莞市千木电子科技有限公司					
零件名称		2.4G AP Antenna		产品名称	
2.4G AP Antenna				2.4G AP Antenna	
零件料号		HX-A03		产品料号	
HX-A03				HX-A03 .Dwg	
缩放比例		NONE		单位	
NONE		单位		毫米	
					
核准人		审核人		制图人	
				尺寸公差	
				x. ± 0.5 x.x ± 0.1 x.xx ± 0.05 x° $\pm 1^\circ$	
				REV.	
				A	

Index:

1. Reliability Testing
2. Specification
3. S Parameter Test Data
4. Antenna Radiation Pattern

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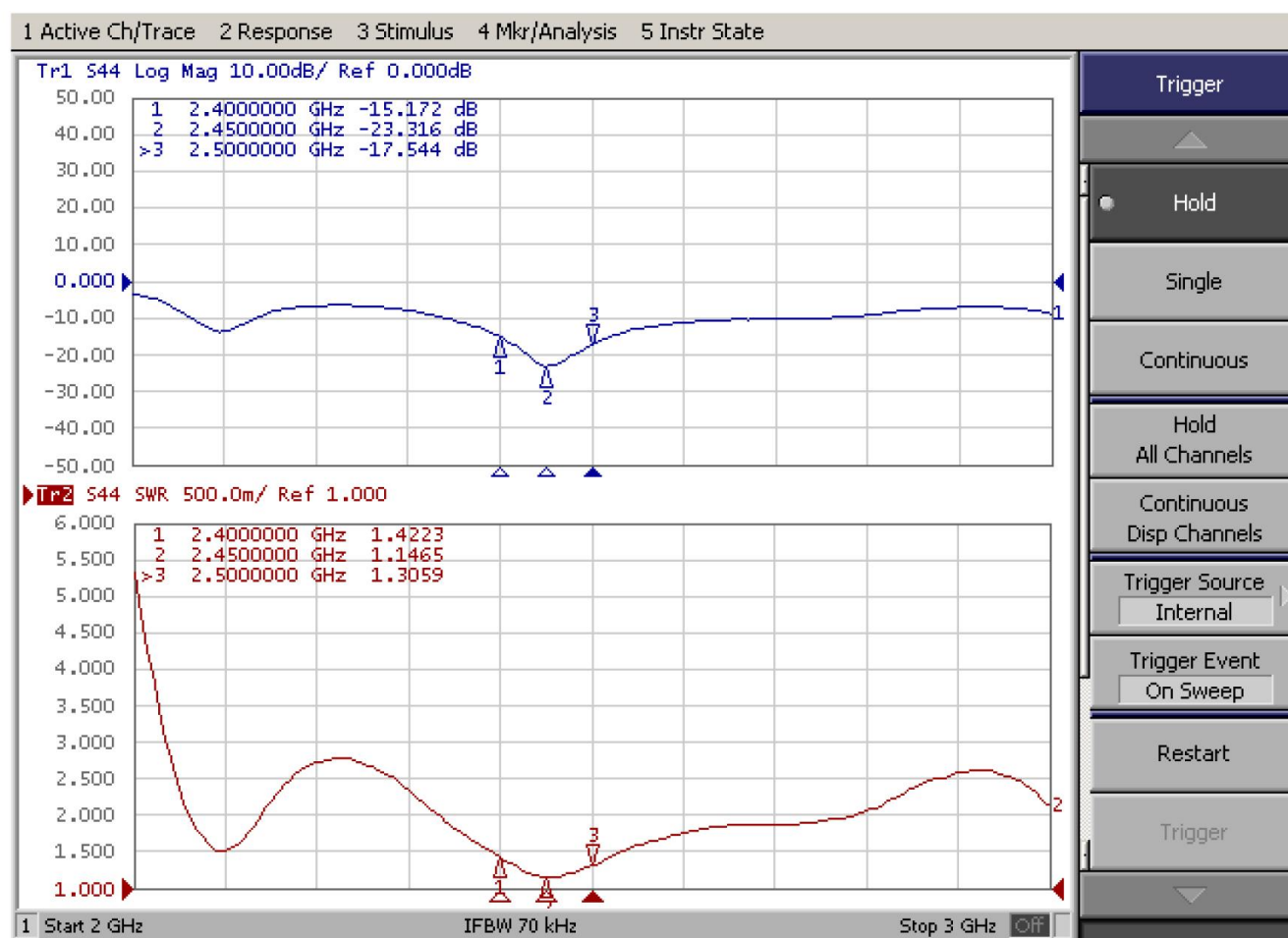
1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 80°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
4. Endurance	24 hours at 80°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
5. Connector Pull Strength Test	≥ 1.0 Kg	Hold 2~3S: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$

2. Specification

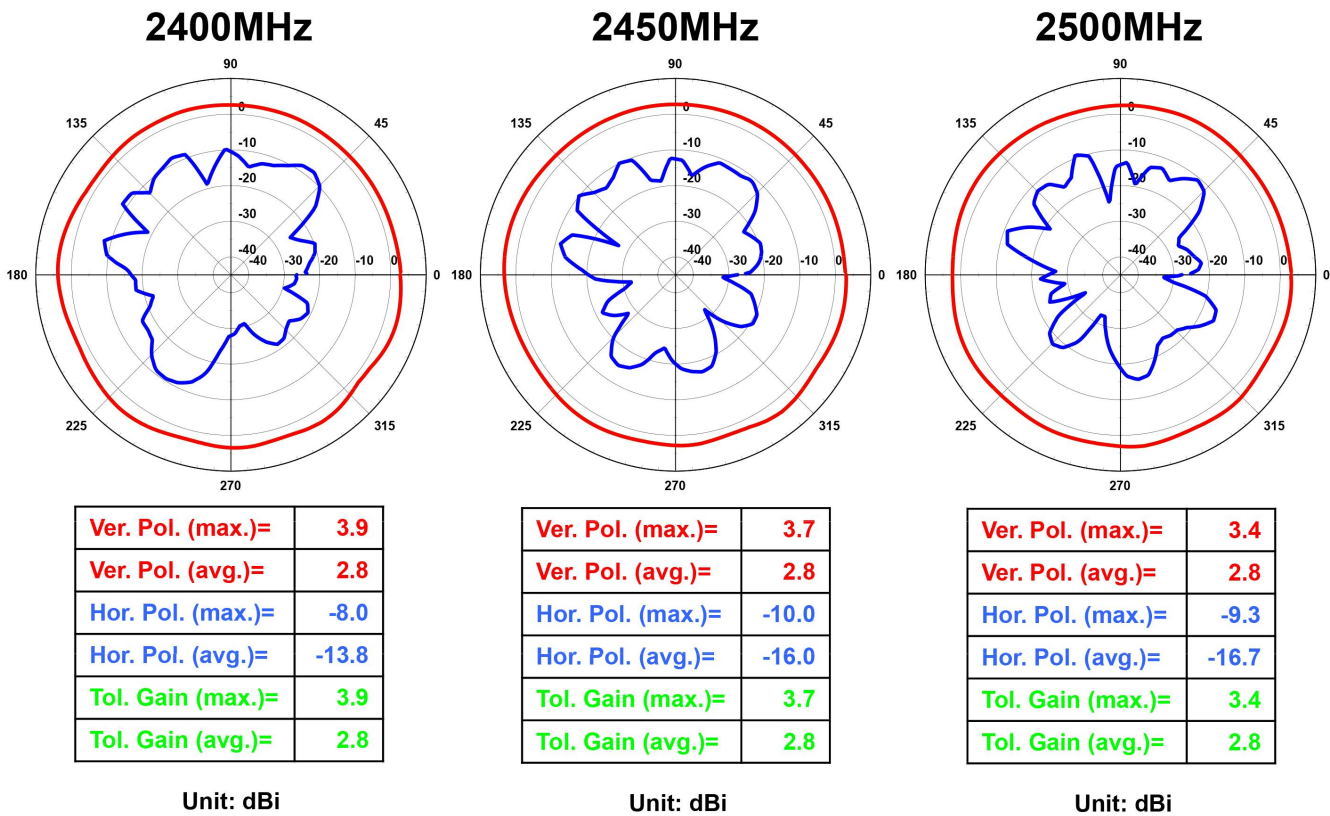
A. Electrical Characteristics	
S.W.R.(Tested in PC)	≤ 2.0 @ 2400~2500 MHz
Typical Antenna Gain	2.0dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Connector Type	I-PEX
Material of Coaxial Cable	1.13
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S.W.R. Testing Result



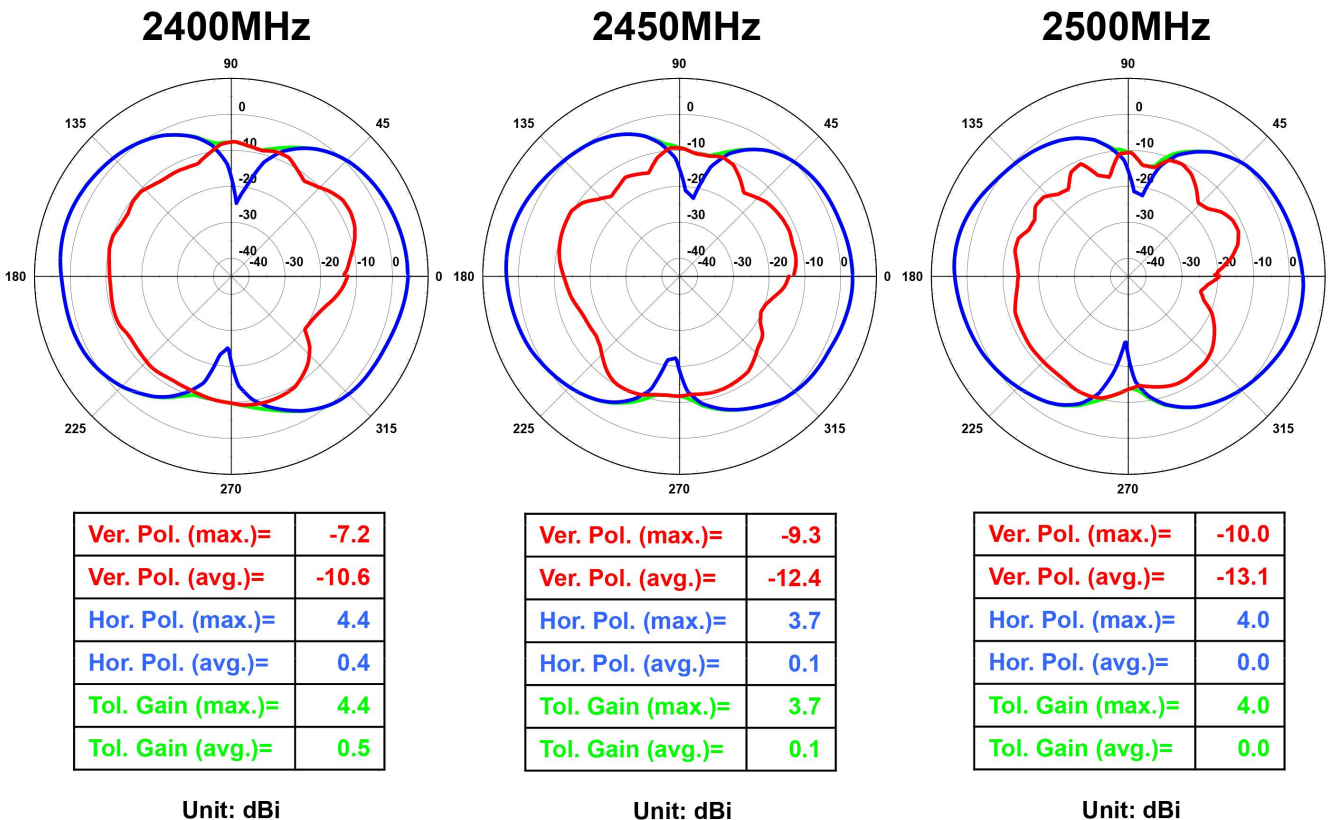
Electrical Performance-Radiation Pattern and Gain

H-Plane



Electrical Performance-Radiation Pattern and Gain

E-Plane



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

