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Shenzhen Hongdezhixin Technology Co., LTD

Antenna test report

Customer Name:

Entry Name : G3901

Report Date : 2023.11.29

Basic information of customer projects

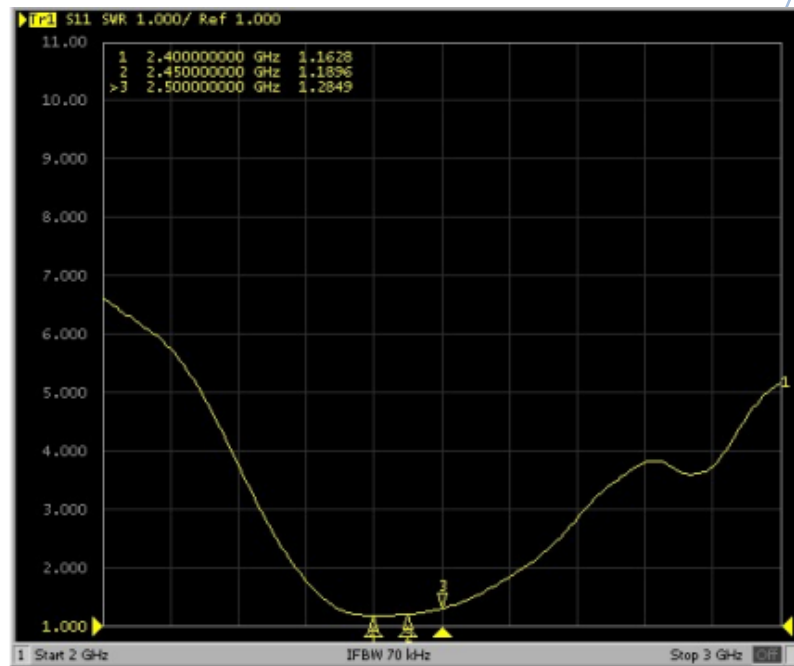
No.		Project configuration information	
1	Frequency band (MHz)		2.4G
2	Antenna type	Copper tube antenna	
3	Antenna specifications	150mm	



Antenna design and testing report

1. Technical indicators and experimental equipment

Product electrical performance indicators	
Operating frequency range	2400 ~ 2480MHz
Standing-wave ratio	2400~ 2480MHz: < 1.5
Antenna gain	2400 ~ 2480MHz: +3 dBi $\pm$ 0.5dBi
Radiation efficiency	2496 ~ 2690MHz: >60 %
Impedance	50 ohm
Product Material Description	
Copper tube	Electrolytic Copper+PI
Product Environment Description	
Operation temperature	- 30℃ ~ + 85 ℃
Storage temperature	- 30℃ ~ + 85 ℃



电压驻波比 (VSWR)

2. Antenna efficiency and gain

Frequency (MHz)	Efficiency	Gain (dBi)
2400	37.17%	2.53
2410	35.96%	2.41
2420	34.74%	2.27
2430	34.45%	2.28
2440	34.89%	2.41
2450	35.90%	2.63
2460	37.39%	2.90
2470	39.00%	3.15
2480	40.38%	3.35
2490	40.69%	3.43
2500	40.04%	3.39