



Shenzhen cape deep communication technology co., LTD

Antenna test report

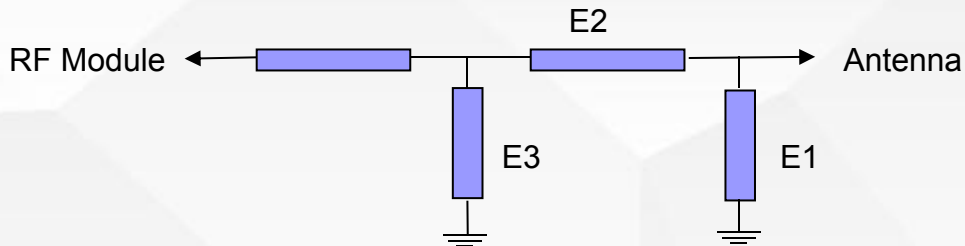
Customer : ZhiZe
item name : CM749
RF : Devin
Date : 2023.09.15
Version : v0.2

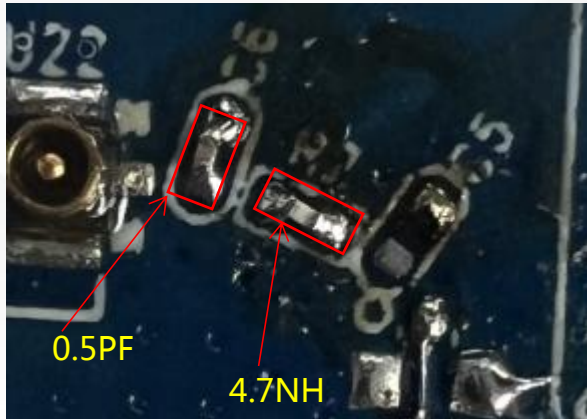


Introduction to Project Debugging

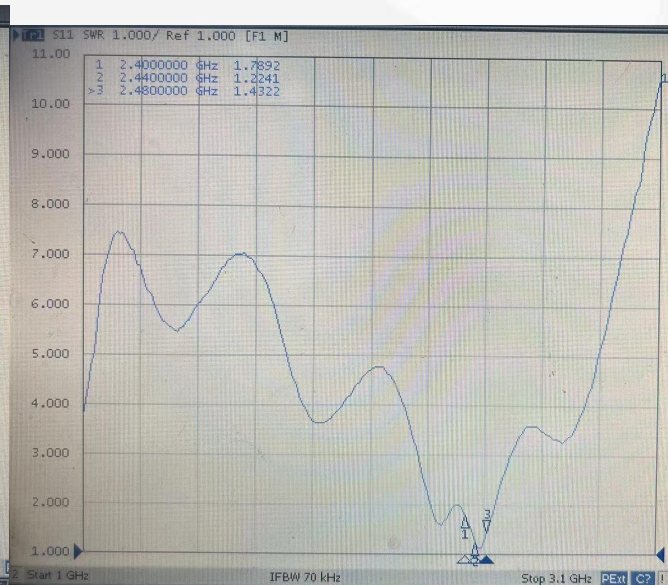
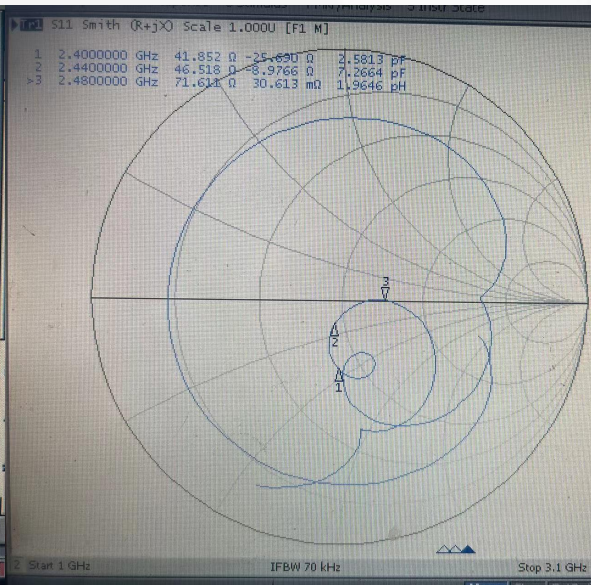
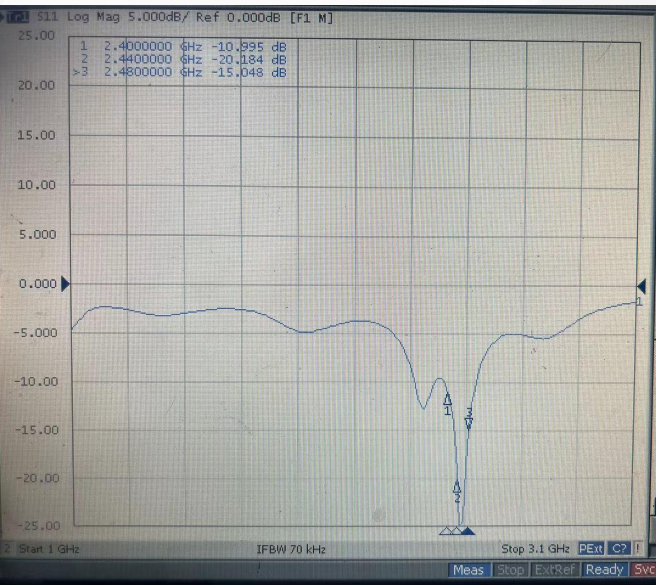
Type of complete machine	External antenna		
Antenna type and frequency band information	Frequency band information		antenna form
	External antenna	BT	External antenna
Antenna material	PCB and leadwire		

Main antenna matching circuit with PA



main ANT	Element	Value	Illustrated Figures
	E1(0402)	0.5PF	
	E2(0402)	4.7NH	
	E3(0402)	NC	

Passive waveform





Antenna darkroom efficiency

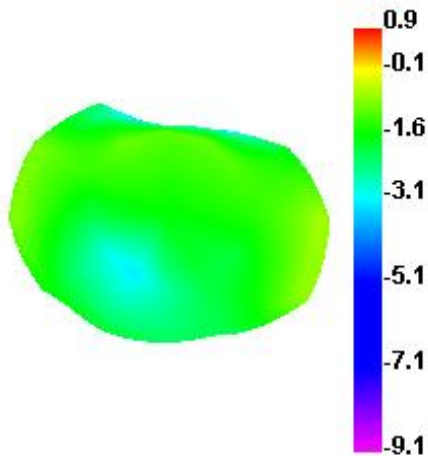
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.73	-2.7	0.99
2410	49.62	-3.04	0.63
2420	53.17	-2.74	1.19
2430	51.25	-2.9	1.26
2440	50.46	-2.97	1.43
2450	49.65	-3.04	1.42
2460	50.37	-2.98	1.51
2470	48.26	-3.16	1.19
2480	51.53	-2.88	1.54
2490	57.32	-2.42	2.08
2500	61.77	-2.09	2.62



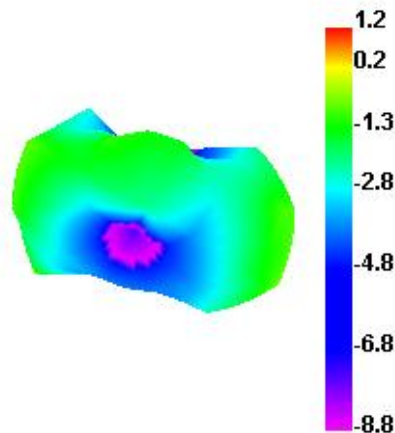
凯普深

Antenna Test Data Apple Chart

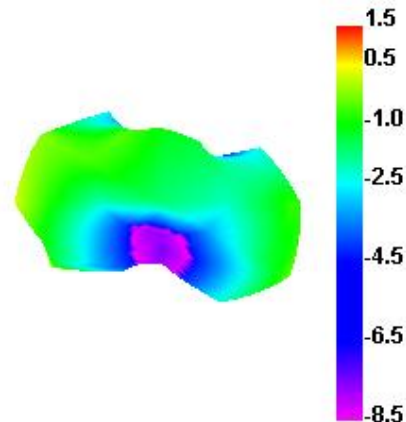
2400.000MHz



2440.000MHz



2480.000MHz





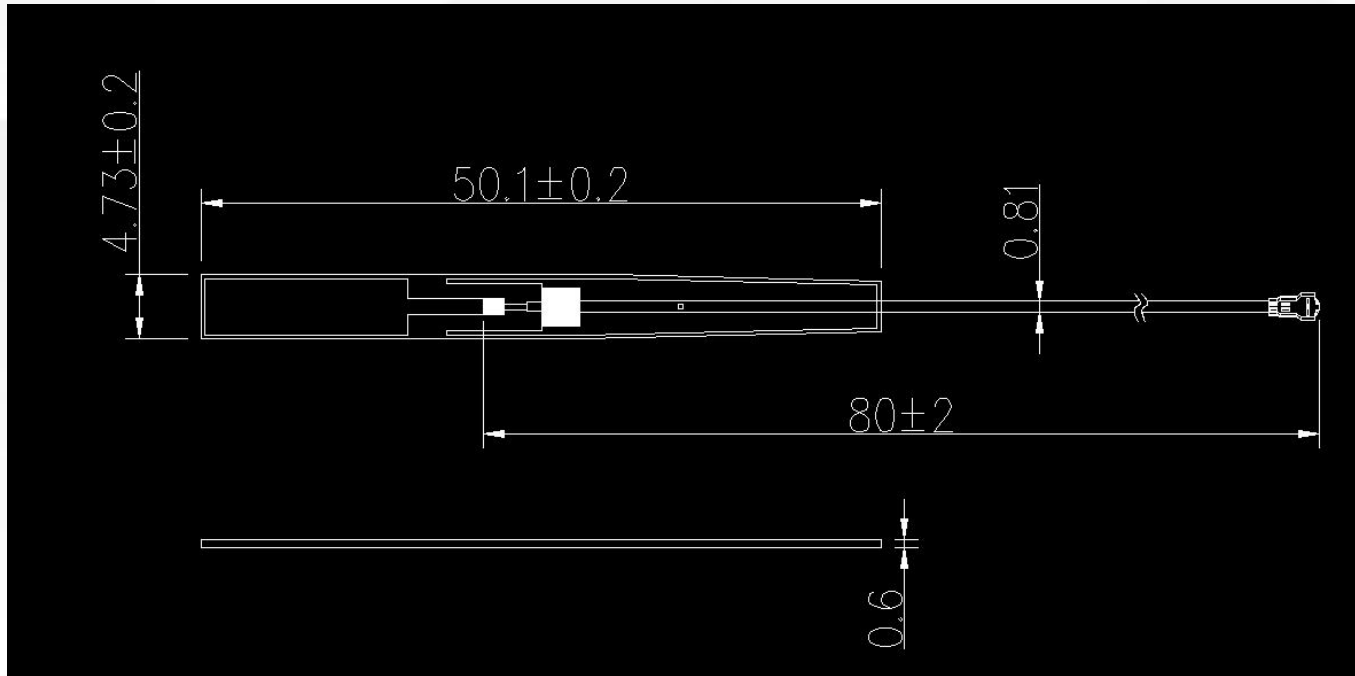
Antenna related information data sheet

Electrical performance test results

ANT						
NUM	Inspection items	unit	Performance index requirements	Inspection results		determine
1	Frequency range	MHz	2400-2500	2400-2500		OK
2	Gain	dBi	/	2400	0.99	
				2440	1.43	
				2480	1.54	
4	Return loss	dB	≤ -6	2402	-11	
				2441	-20.18	
				2483	-15.05	
4	Standing wave ratio	dB	/	2402	1.79	
				2441	1.22	
				2483	1.43	



Antenna dimensions



unit:mm

Manufacturer: **Shenzhen cape deep communication technology co., LTD**



Contact information

RF : Devin

Tel : 15079208071

Email : kpsyanfa3@szkpstx.com

Address : 2nd Floor, Yulong Office Building, Longcheng Industrial Zone,
No. 440 Longguan Avenue, Longhua District



THE END

**Thank you for your
valuable feedback!**