

Product specification

Quick Reference Data

	Antenna module on the system board	
Antenna type	Bluetooth Ceramic Patch Antenna	
Frequency	2.45GHz ^{*1}	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-2.3 (Input pwr ?loss pwr)	
Peak EIRP(dBm)	1.3	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-3.4/ (43.34%)	
Gain (dBi)	1.78(Peak Gain X Z-plane)	
Maximum Power (dBm)	1.3 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Max/Min Ratio (dB)	4.95(XY-plane)	
Max/Avg Ratio (dB)	3.04(XY-plane)	
Min/Avg Ratio (dB)	1.56(XY-plane)	
Average Gain (dB)	2.49(Avg Gain XY-plane)	

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board



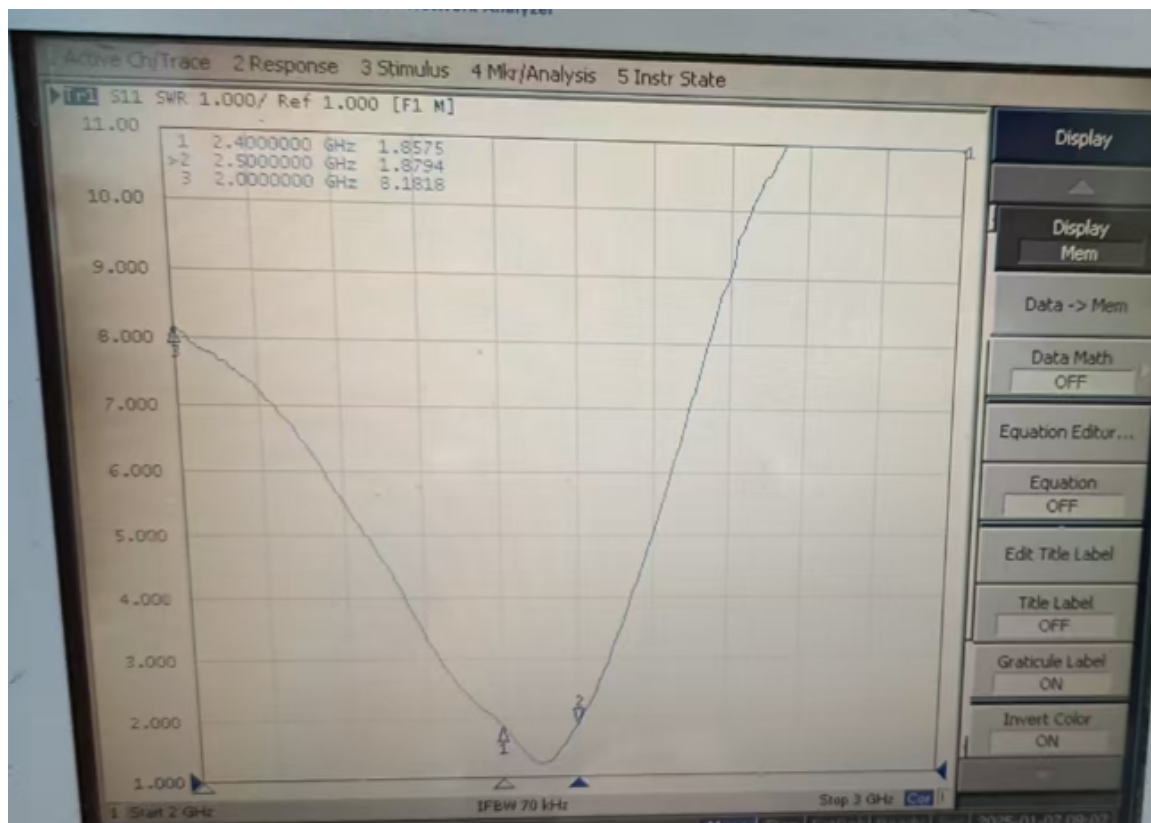
- 1. Feeding**
- 2. Identification Mark**
- 3. Soldering terminal**

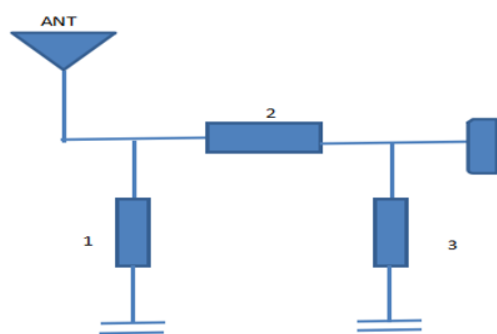
DIMENSIONS

Figure	Symbol	Dimension (mm)
	L	3.20 ± 0.20
	W	1.60 ± 0.10
	T	1.20 ± 0.10
	a	0.25 ± 0.15



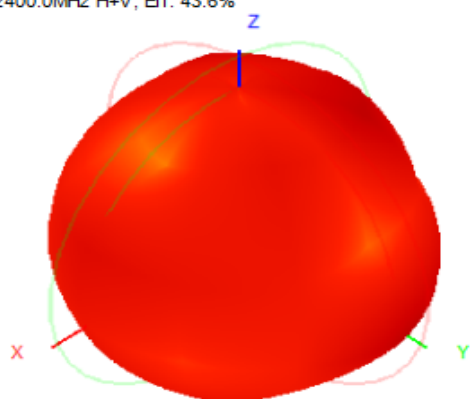
Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	1.46	43.64
2	2410.0	1.42	43.88
3	2420.0	1.26	43.23
4	2430.0	1.11	42.33
5	2440.0	1.05	41.59
6	2450.0	1.29	43.34
7	2460.0	1.61	45.73
8	2470.0	1.78	46.75
9	2480.0	1.63	44.80
10	2490.0	1.61	45.35
11	2500.0	1.40	44.68



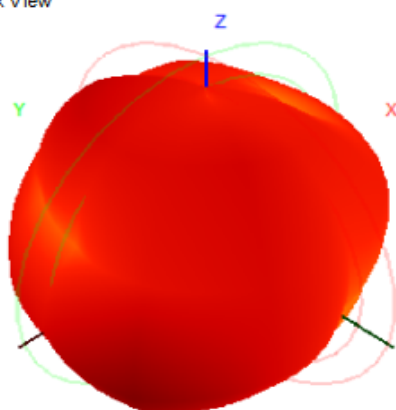


	P/C	pF	nH
1			
2	C		1.5nH
3	P	1pF	
4			
5			

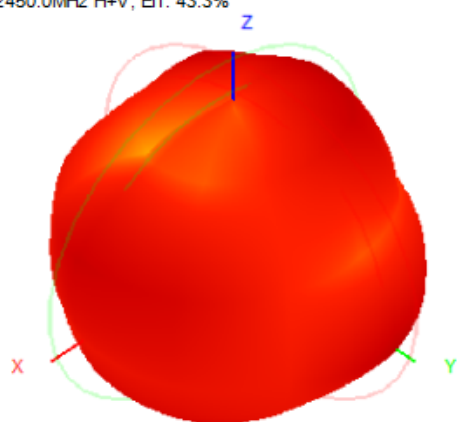
2400.0MHz H+V, Eff: 43.6%



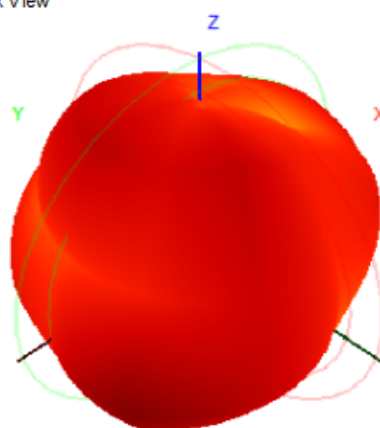
Back View



2450.0MHz H+V, Eff: 43.3%

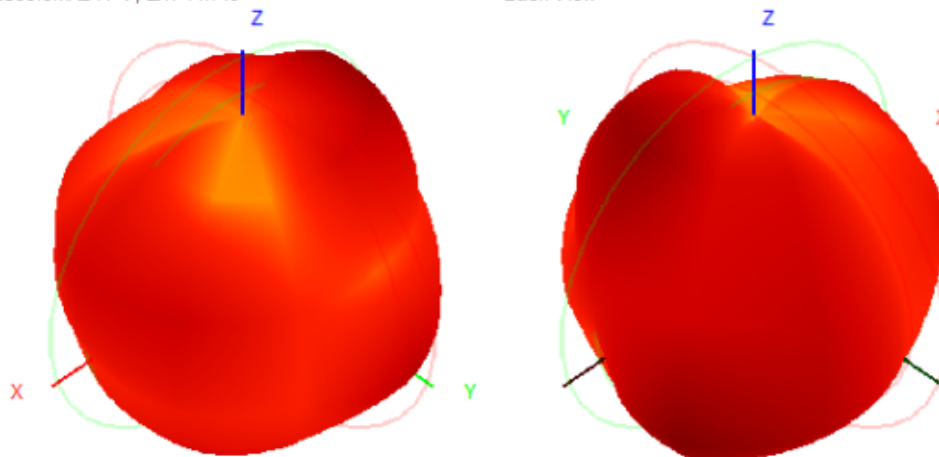


Back View

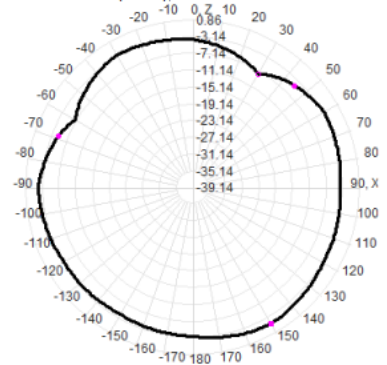


2500.0MHz H+V, Eff: 44.7%

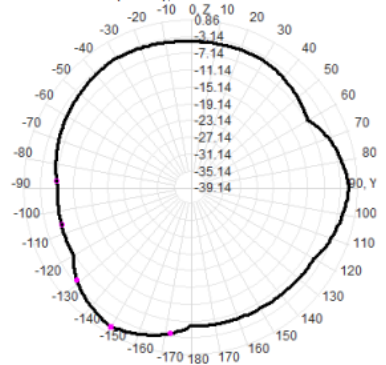
Back View



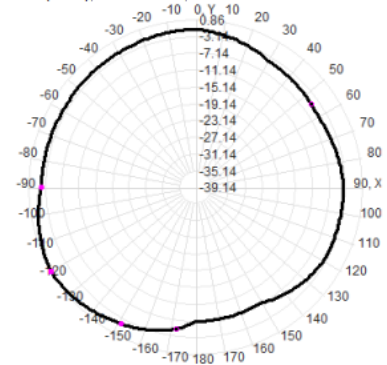
2400.0MHz Total(E1-XZ), Max=-1.74dBi



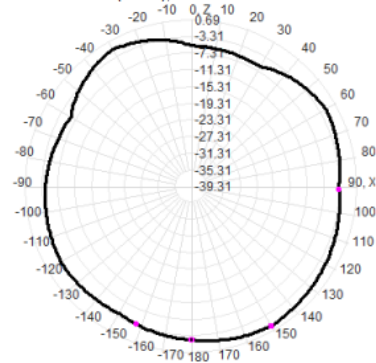
2400.0MHz Total(E2-YZ), Max=-1.00dBi



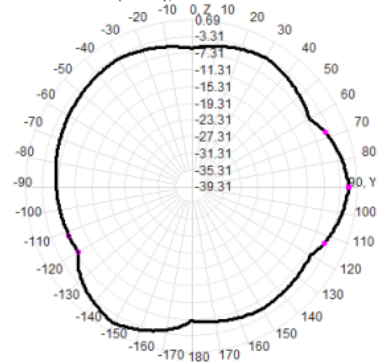
Total(H-XY), Max=0.86dBi, CirD=8.47



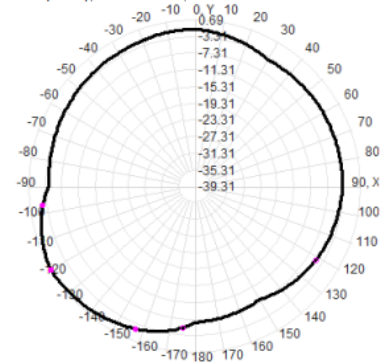
2450.0MHz Total(E1-XZ), Max=-0.78dBi



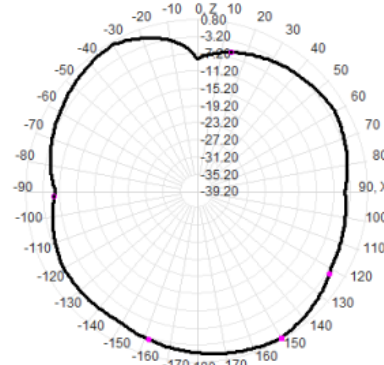
2450.0MHz Total(E2-YZ), Max=-1.53dBi



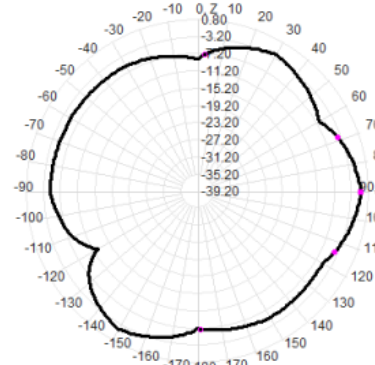
Total(H-XY), Max=0.69dBi, CirD=8.80



2500.0MHz Total(E1-XZ), Max=0.11dBi



2500.0MHz Total(E2-YZ), Max=-1.18dBi



Total(H-XY), Max=0.80dBi, CirD=7.60

