

Technical Data Sheet Of BT/WLAN Antenna on Standard PWB

**P/N : ANCG12G44SAA145RD1
PWB size : 37x80mm**

Note

Please confirm the latest specification for antenna shape and dimensions.

Capacitors and Inductors used in this report are as follows unless otherwise specified.

The values of each components are mentioned in the report.

In case using different series or manufactures' components, another value may be required to get the proper result.

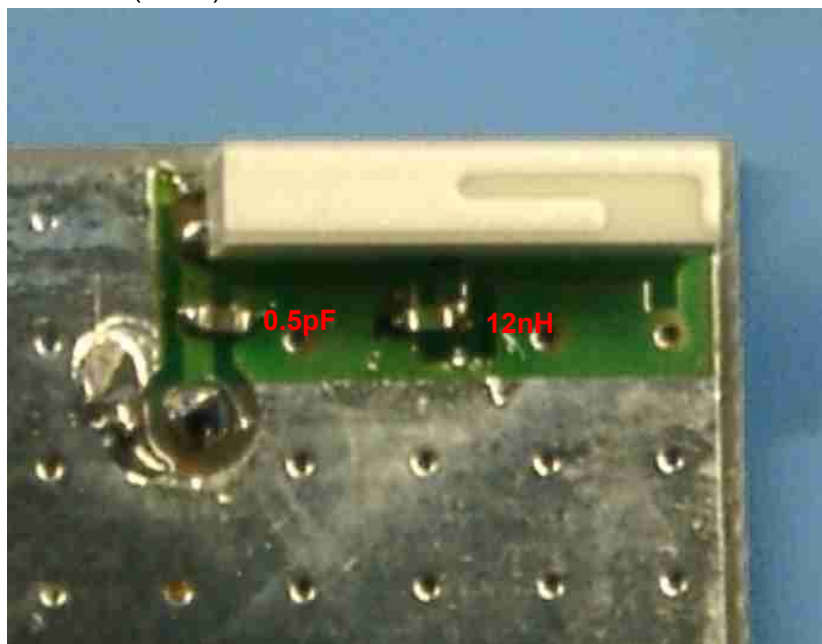
Capacitors: GRM15 series (Murata)

Inductors: LQG15HS series (Murata)

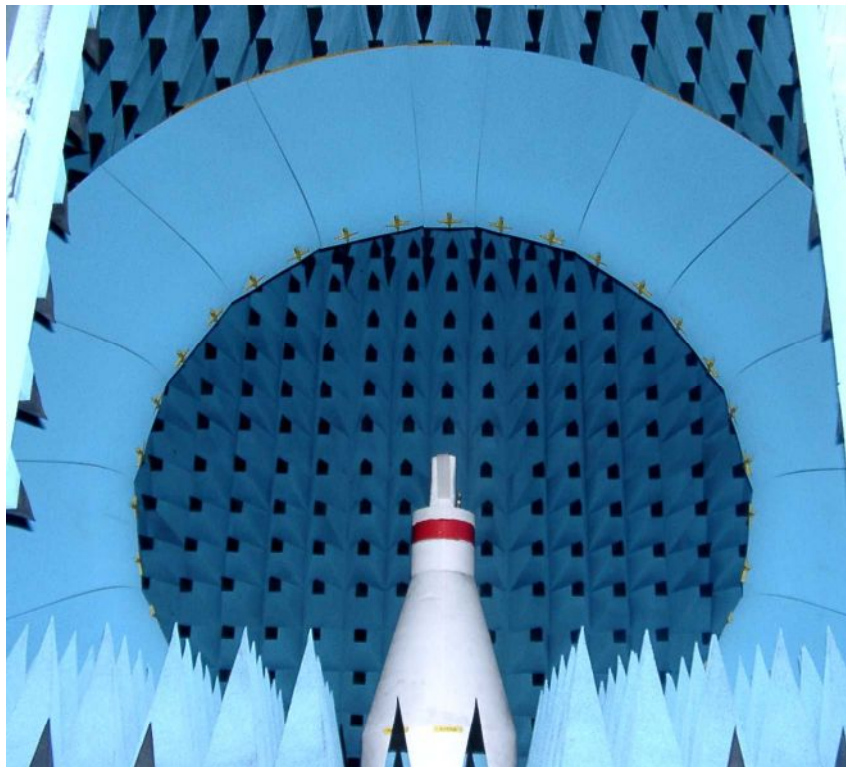
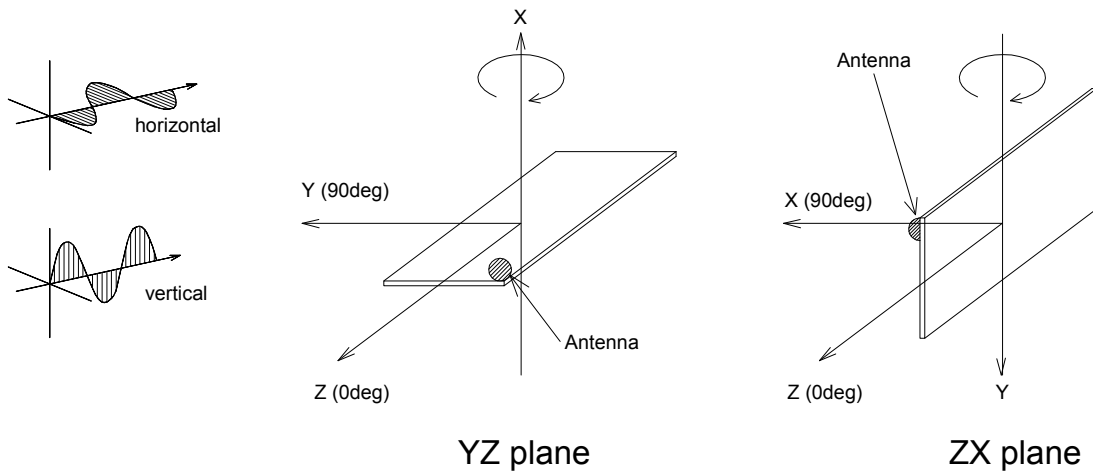
Kanazawa Murata Mfg.Co.,Ltd
Antenna Products Department

Measurement condition

ANCG12G44SAA145RD1: 2x9.8x3.8mm(L turn) / PWB 37x80mm



Measurement direction



3D Measurement
Stargate32 (Satimo)

Measurement result

Return loss

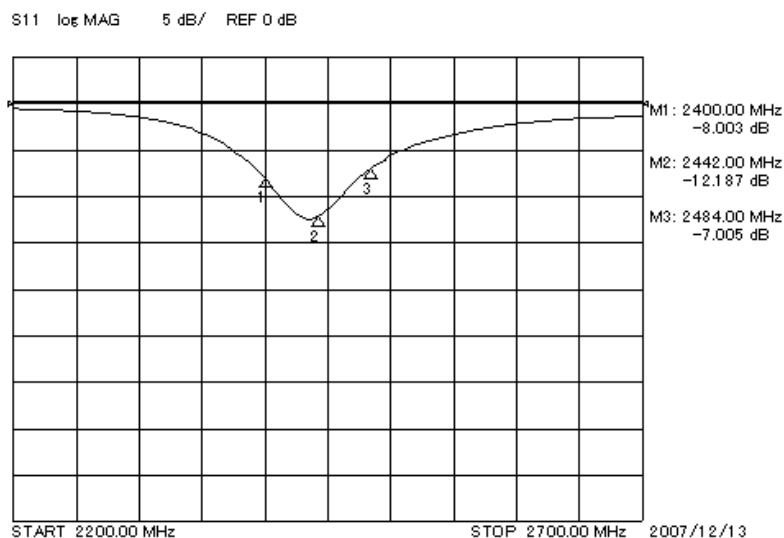


Fig. 1 Condition 1: ANCG12G44SAA145RD1

Antenna gain(3D measurement)

Table. 1 Condition 1: ANCG12G44SAA145RD1

LINEAR POLARIZATION		YZ-plane		ZX-plane		Efficiency
		hor.	ver.	hor.	ver.	
2400 MHz	MAX	0.4	-7.5	-1.6	-0.4	-2.1
	AVE	-3.4	-10.1	-8.0	-3.2	
2442 MHz	MAX	0.7	-6.6	-1.3	0.2	-1.6
	AVE	-3.0	-9.6	-7.3	-2.6	
2484 MHz	MAX	-0.5	-7.4	-2.0	-0.5	-2.2
	AVE	-3.6	-10.4	-7.9	-3.2	

Radiation Pattern(3D measurement)

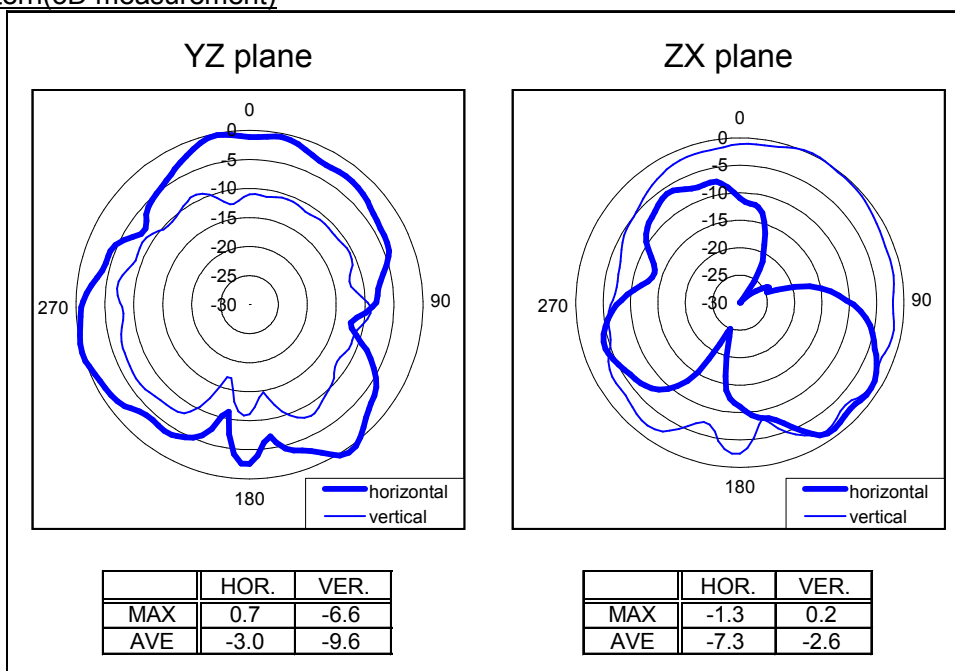


Fig. 2 Condition 1: ANCG12G44SAA145RD1