

Technical Data Sheet of BT Antenna on Standard PWB

**LDA21K Series
P/N: LDA212G3110K-282**

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

1. Appearance

PWB

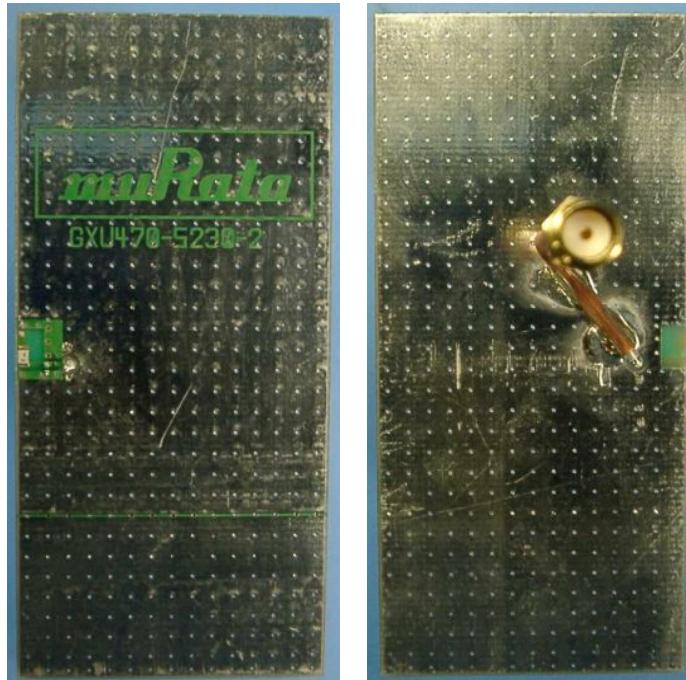


Fig. 1 Appearance of Measurement Board (37x80mm)

Antenna

LDA212G3110K-282 (2.0x1.25x0.95mm)

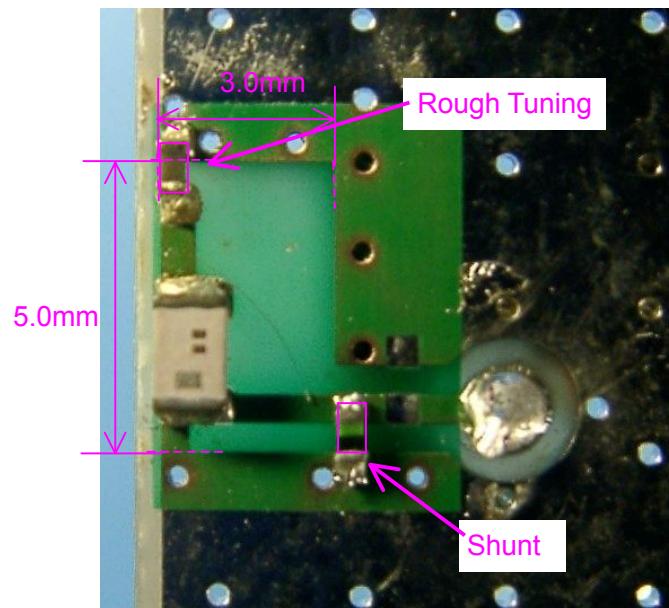


Fig. 2 Appearance of GND Clearance Area

2. Measurement Condition

Condition1: LDA212G3110K-282

Rough Tuning : 8.0pF, Shunt: 3.0nH

3. Measurement direction

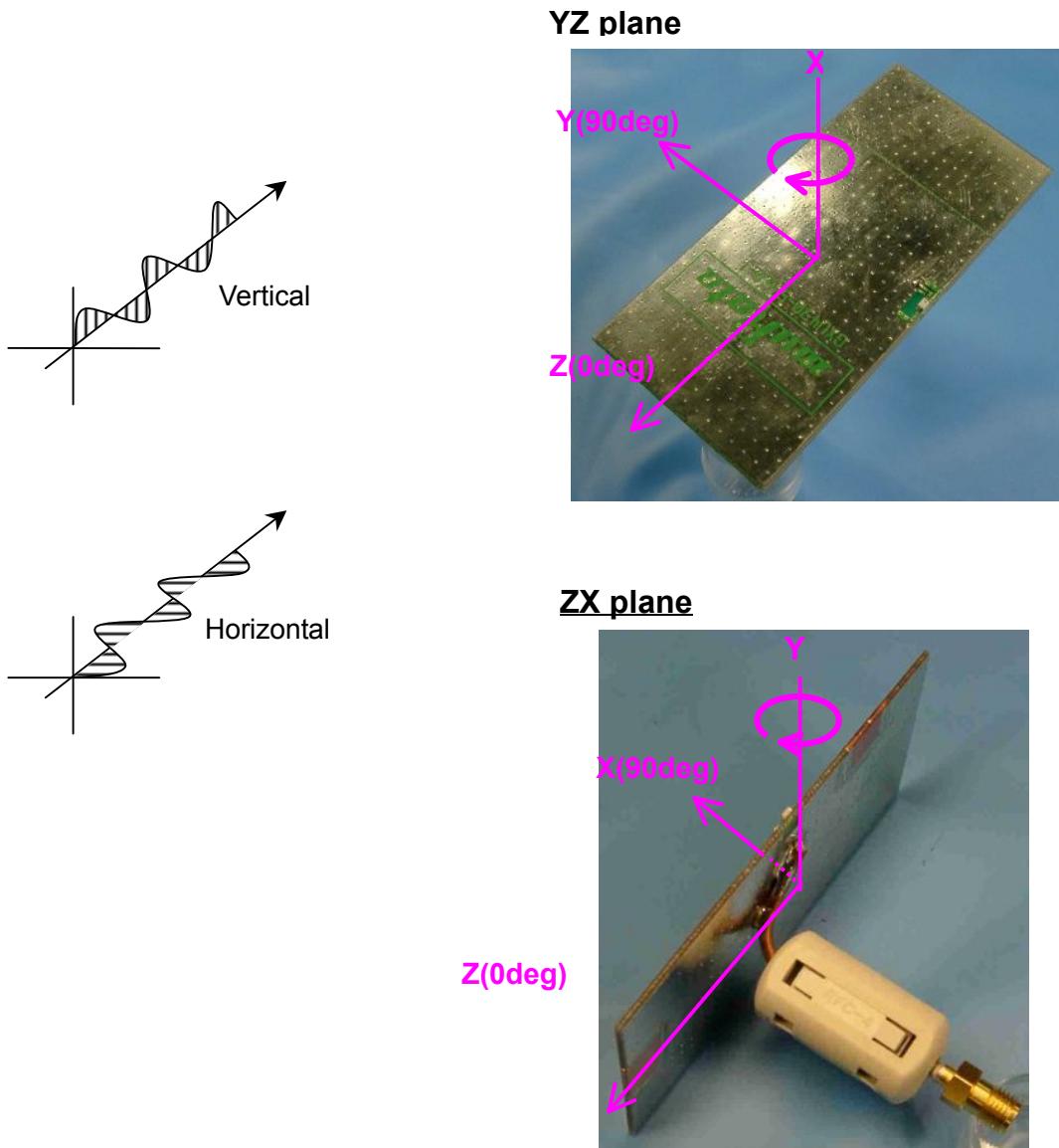


Fig. 3 Measurement direction in Free Space

4. Measurement result

4.1 Return loss

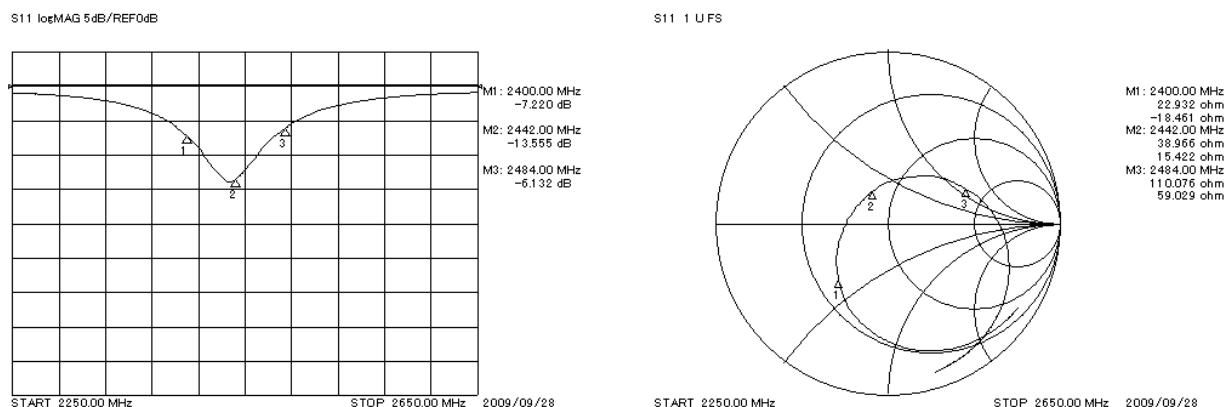


Fig. 4 Condition 1: LDA21K

4.2 Antenna gain(3D measurement)

Table. 1 Condition 1: LDA21K

BT		[dBi]				Total Efficiency	
LINEAR POLARIZATION		YZ-plane		ZX-plane			
		hor.	ver.	hor.	ver.		
2400 MHz	MAX	-0.2	-14.8	-1.4	-3.3	-3.1	
	AVE	-3.3	-20.4	-6.4	-6.4		
2442 MHz	MAX	0.9	-12.5	-0.6	-2.1	-2.2	
	AVE	-2.4	-19.1	-5.6	-5.1		
2484 MHz	MAX	-0.4	-13.2	-1.9	-3.1	-3.2	
	AVE	-3.4	-19.3	-6.8	-5.8		

4.3 Radiation Pattern(3D measurement)

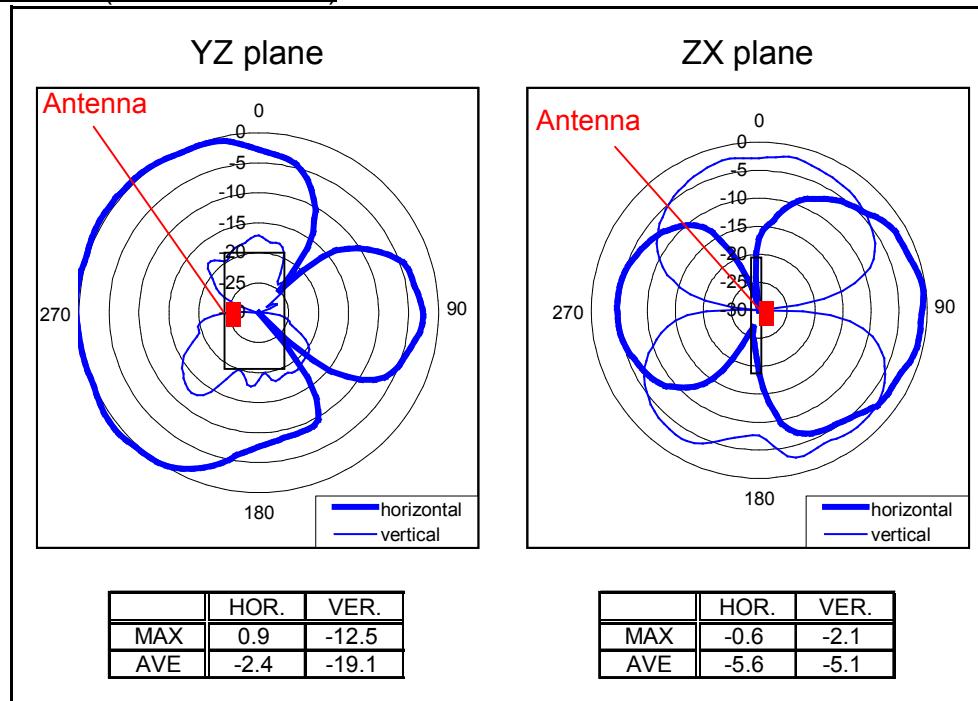


Fig. 5 Condition 1: LDA21K