

Technical Data Sheet of BT for Lenovo/Remote control

P/N: ANCG12G44SAA129

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 component 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

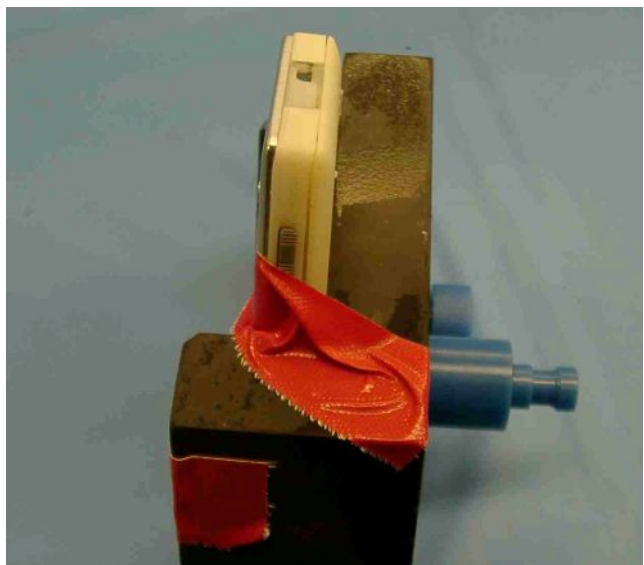
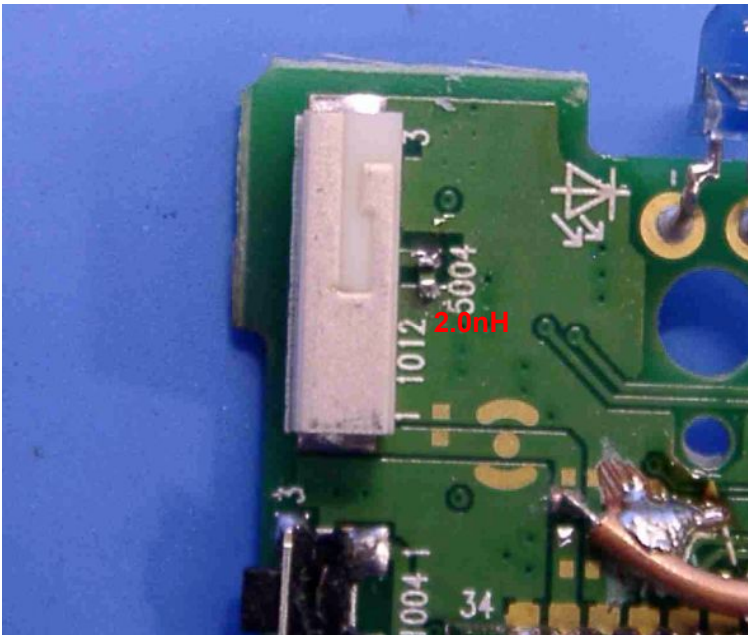


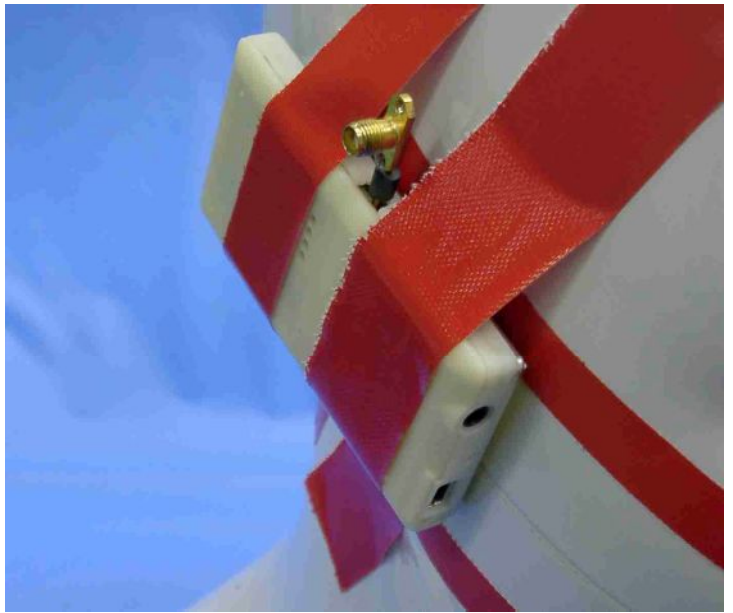
Measurement condition

Condition1: Free Space

Condition2: Phantom Hand

Condition3: Phantom Head

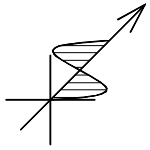




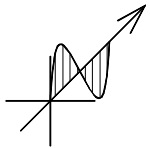
Measurement direction

2D Measurement

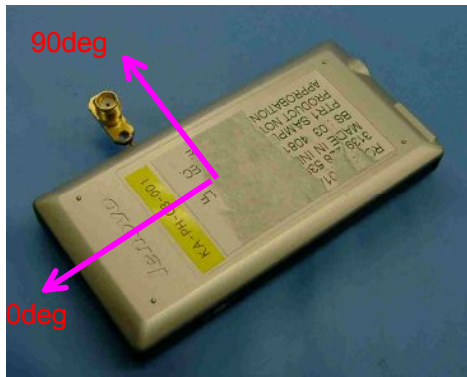
Free Space



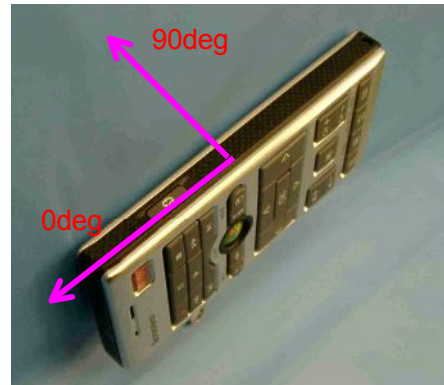
Horizontal



Vertical



YZ Plane



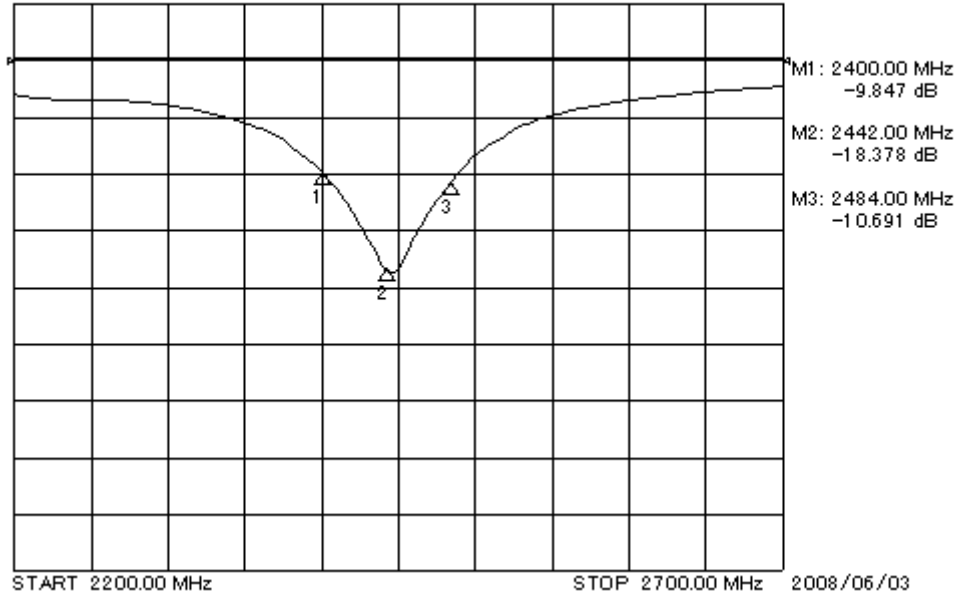
ZX Plane

Measurement result

Return loss

Condition1: Free Space

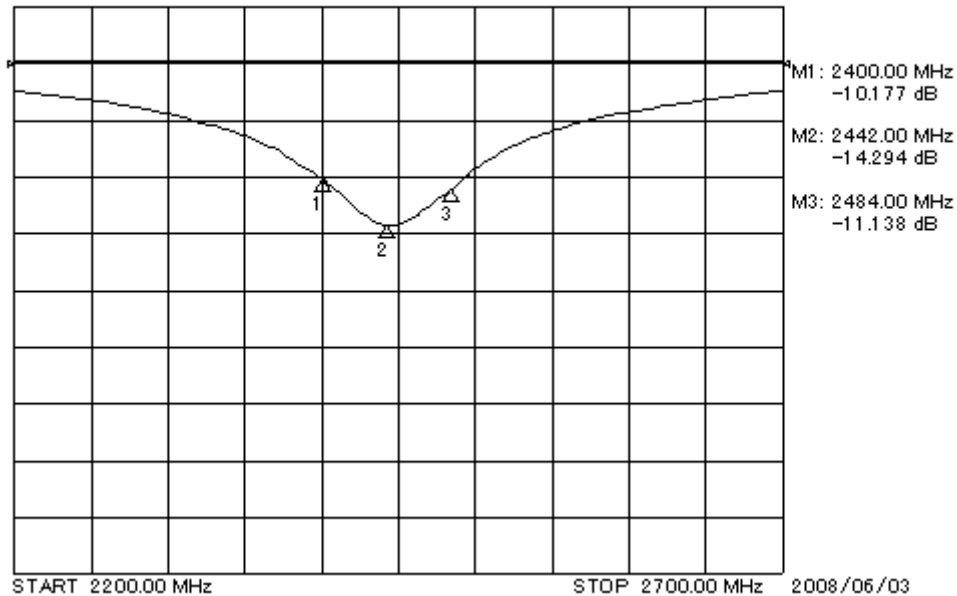
S11 log MAG 5 dB/ REF 0 dB



Band width: 165MHz(@VSWR:3.0)

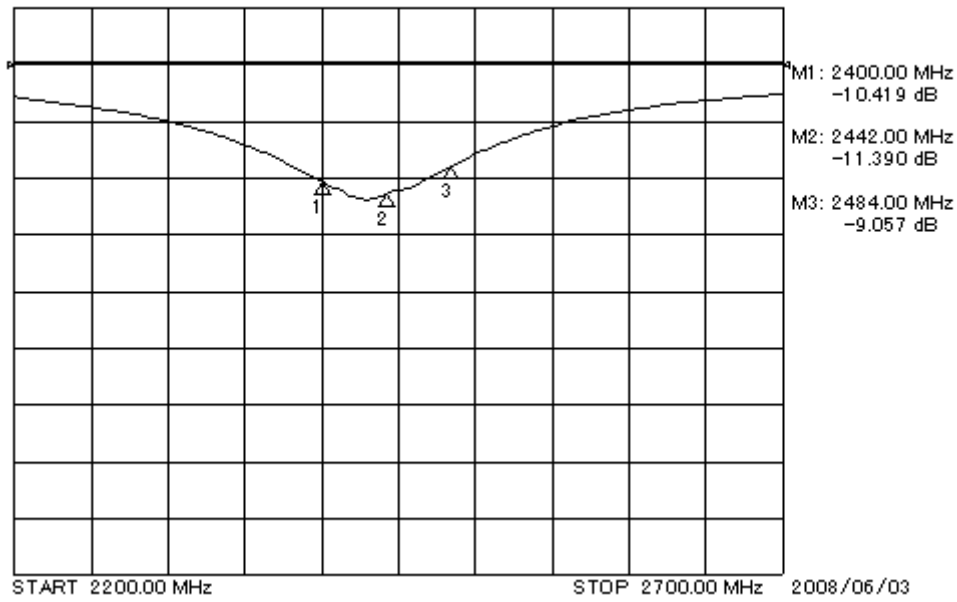
Condition2: Phantom Hand

S11 log MAG 5 dB/ REF 0 dB



Band width: 206MHz(@VSWR:3.0)

S11 log MAG 5 dB/ REF 0 dB



Band width: 208MHz(@VSWR:3.0)

Condition1: Free Space

LINEAR POLARIZATION		YZ-Plane		ZX-Plane		Efficiency
		hor.	ver.	hor.	ver.	
2400 MHz	MAX	-0.2	-5.5	-1.2	-2.7	-3.0
	AVE	-6.0	-11.5	-5.5	-4.8	
2442 MHz	MAX	0.3	-3.6	-0.3	-2.2	-2.2
	AVE	-5.3	-9.8	-4.7	-3.9	
2484 MHz	MAX	-0.6	-4.7	-0.2	-1.8	-2.3
	AVE	-5.8	-10.9	-5.0	-3.9	

Condition2: Phantom Hand

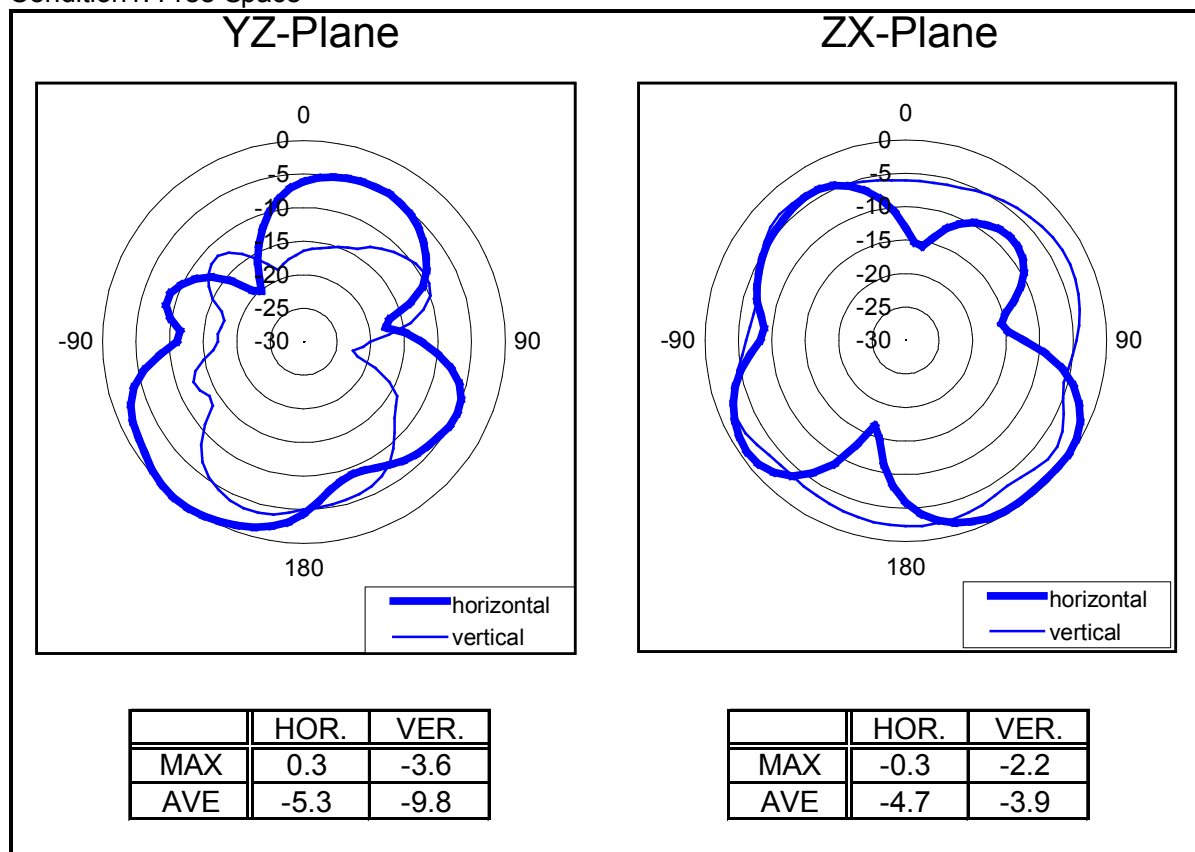
LINEAR POLARIZATION		YZ-Plane		ZX-Plane		Efficiency
		hor.	ver.	hor.	ver.	
2400 MHz	MAX	-3.9	-6.9	-4.5	-2.3	-4.6
	AVE	-8.6	-10.9	-7.4	-5.6	
2442 MHz	MAX	-3.5	-6.3	-4.0	-1.4	-3.8
	AVE	-7.8	-9.6	-6.9	-4.9	
2484 MHz	MAX	-4.1	-7.3	-4.2	-1.5	-3.8
	AVE	-8.1	-10.4	-7.0	-4.9	

Condition3: Phantom Head

LINEAR POLARIZATION		YZ-Plane		ZX-Plane		Efficiency
		hor.	ver.	hor.	ver.	
2400 MHz	MAX	-8.7	-2.7	-0.4	-3.2	-5.5
	AVE	-13.0	-7.7	-6.4	-9.2	
2442 MHz	MAX	-7.3	-1.8	0.5	-2.8	-5.0
	AVE	-12.3	-7.1	-5.6	-9.0	
2484 MHz	MAX	-6.8	-2.0	0.3	-2.2	-5.0
	AVE	-12.8	-7.6	-5.9	-8.3	

Radiation Pattern

Condition1: Free Space



Condition2: Phantom Hand

