

Bluetooth Antenna Specification

2006.4.14
FUJITSU Limited

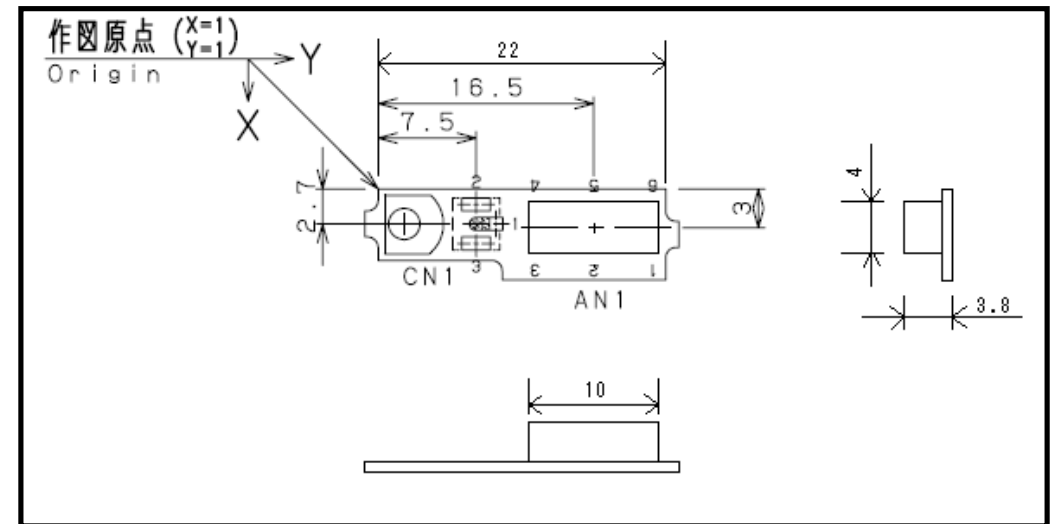
■Model: CP218771

■Antenna Type: Inverted F

■Appearance:



■Dimention:



■Features:

Impedance

50Ω

Frequency Band

2400~2500MHz

■MAX Gain: 3.20dBi

■VSWR: 1.17

To : FUJITSU LIMITED

Application : For Bluetooth

Measurement Institution : Yokowo No.3 Radio Measuring Site

Antenna Model : YCE-5250

Date : 2006/03/10

Measurement Condition : Clio Disp.-Open

Measured by : M.Matsuzaki

Antenna Matching : Non

Correction of Cable Loss : Non (include Loss 0.55dB)

f=2400MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-1.44	-8.32	-7.72	-6.27
	Vertical	-1.83	-7.20		
Y-Z	Horizontal	3.20	-4.29	-5.99	
	Vertical	-3.50	-8.82		
Z-X	Horizontal	-4.19	-8.96	-5.42	
	Vertical	3.19	-3.50		

X-Y Plane All Avg. (All Freq.)	-7.6 dBi
Y-Z Plane All Avg. (All Freq.)	-6.4 dBi
Z-X Plane All Avg. (All Freq.)	-5.4 dBi
All Plane & All Freq. Avg.	-6.4 dBi

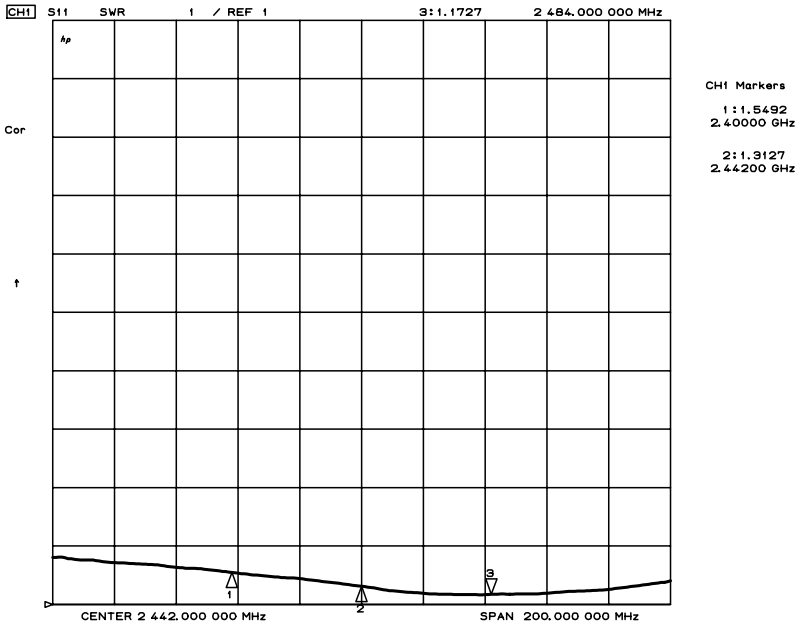
f=2442MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-1.62	-8.33	-7.83	-6.65
	Vertical	-2.04	-7.38		
Y-Z	Horizontal	1.80	-4.99	-6.75	
	Vertical	-4.82	-9.76		
Z-X	Horizontal	-3.86	-8.89	-5.64	
	Vertical	2.80	-3.80		

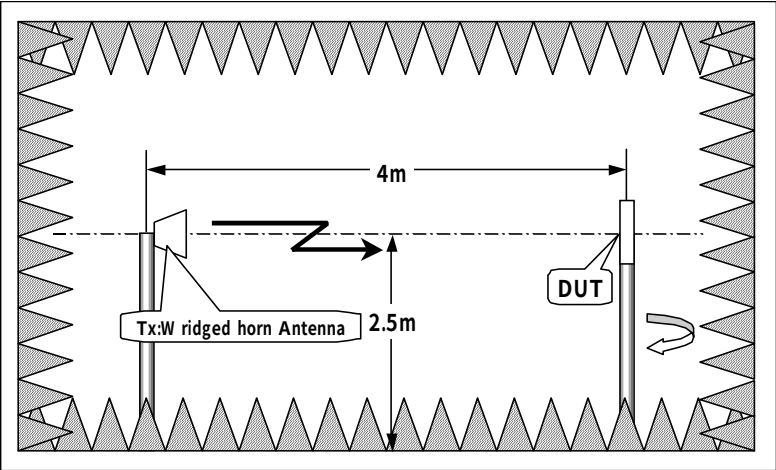
f=2484MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-0.58	-7.72	-7.18	-6.25
	Vertical	-1.45	-6.70		
Y-Z	Horizontal	2.09	-4.75	-6.64	
	Vertical	-4.36	-10.07		
Z-X	Horizontal	-2.72	-8.43	-5.17	
	Vertical	3.16	-3.33		

VSWR



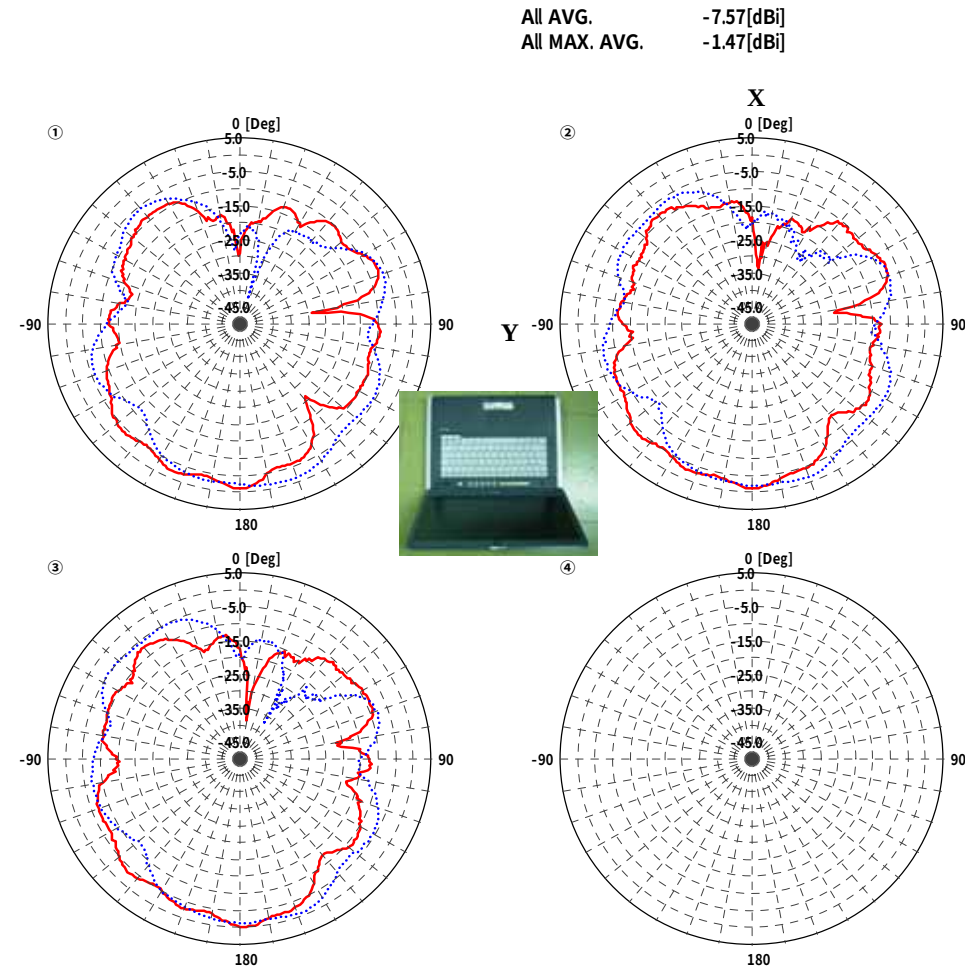
Measurement Condition



Antenna Coordinated

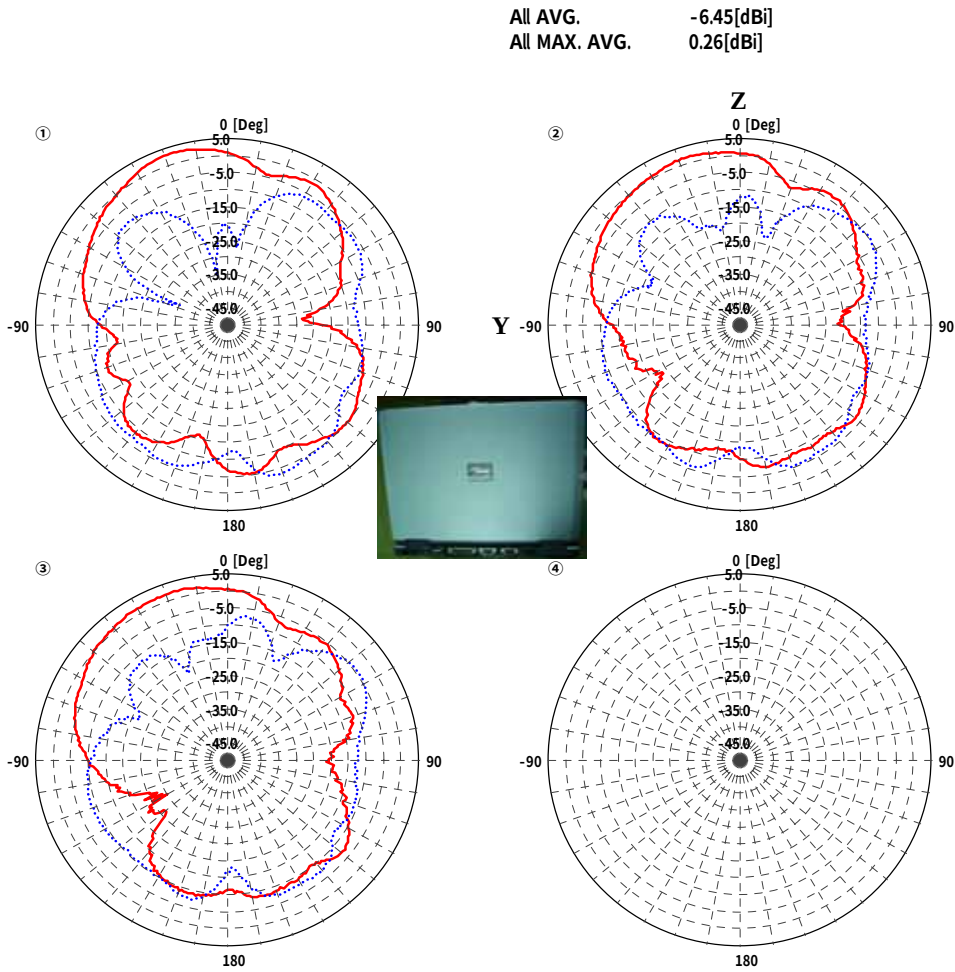


Field Pattern X-Y Plane



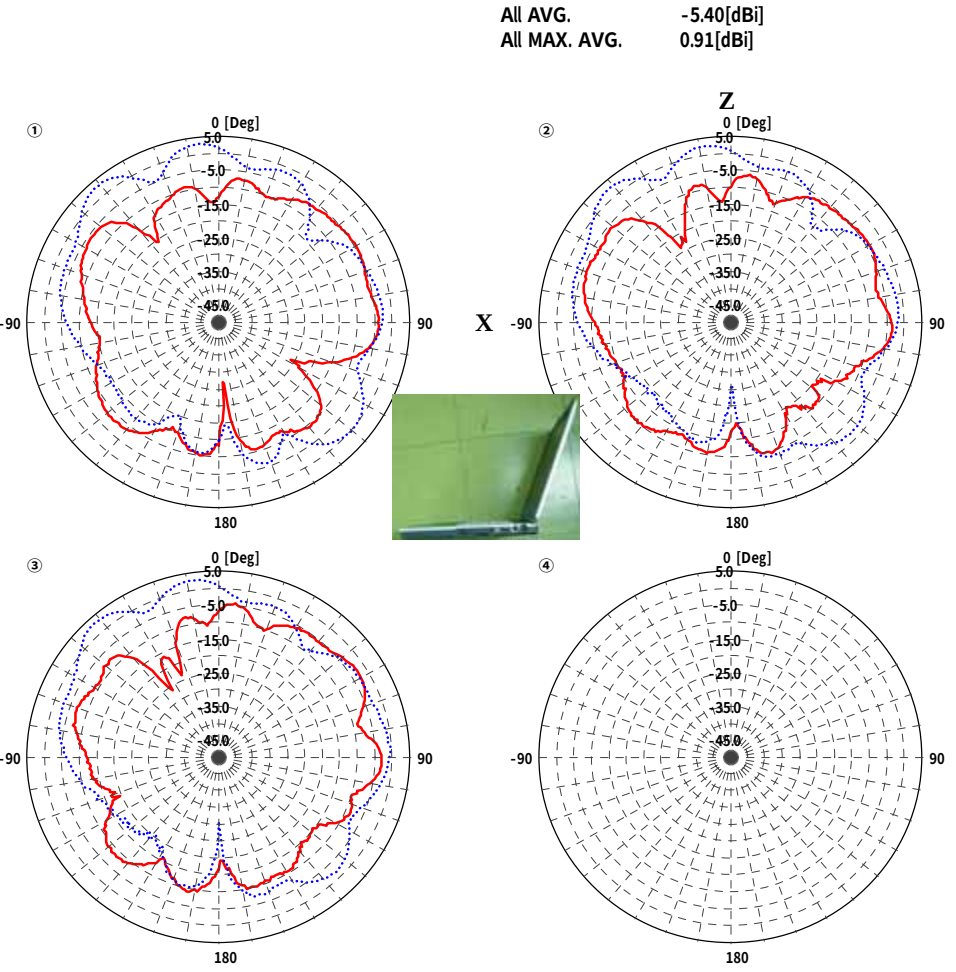
	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—	①	2400.00	Horizontal		-1.43	-8.32
2	—	②	2442.00			-1.63	-8.33
3	—	③	2484.00			-0.57	-7.72
4		①	2400.00	Vertical		-1.83	-7.20
5		②	2442.00			-2.04	-7.39
6		③	2484.00			-1.45	-6.69

Field Pattern Z-Y Plane



	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	————	①	2400.00	Horizontal		3.20	-4.29
2	————	②	2442.00			1.80	-5.00
3	————	③	2484.00			2.10	-4.75
4		①	2400.00	Vertical		-3.49	-8.81
5		②	2442.00			-4.82	-9.76
6		③	2484.00			-4.36	-10.07

Field Pattern Z-X Plane



	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	————	①	2400.00	Horizontal		-4.19	-8.95
2	————	②	2442.00			-3.86	-8.90
3	————	③	2484.00			-2.71	-8.42
4		①	2400.00	Vertical		3.19	-3.49
5		②	2442.00			2.80	-3.80
6		③	2484.00			3.17	-3.32