

Bluetooth Antenna Specification

2006.7.6
FUJITSU Limited

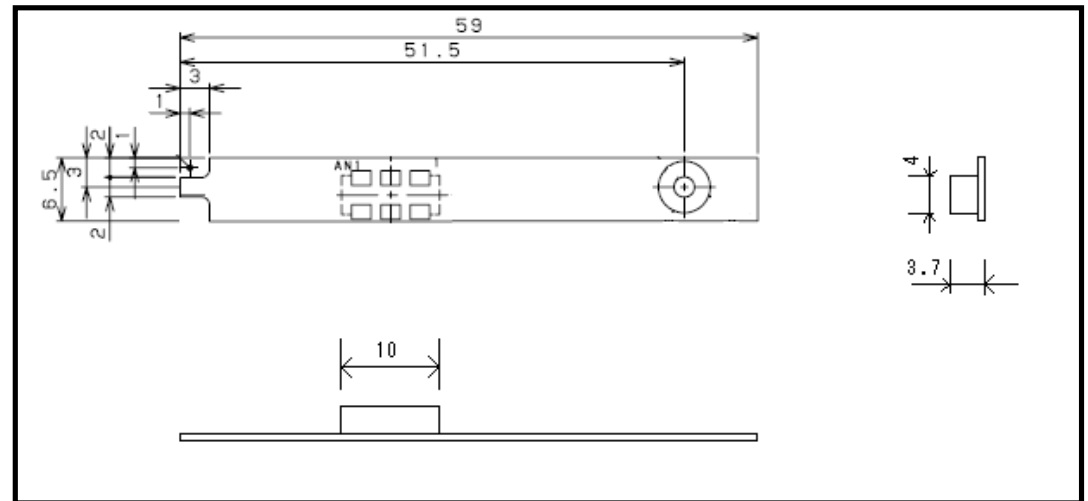
■ Model: CP250073

■ Antenna Type: Inverted F

■ Appearance:



■ Dimention:



■ Features:

Impedance	50Ω
Frequency Band	2400 ~ 2500MHz

■ MAX Gain: -0.13dBi

■ VSWR: 1.1135

To : FUJITSU LIMITED

Application : For Bluetooth

Measurement Institution : Yokowo No.3 Radio Measuring Site

Antenna Model : YCE-5250

Date : 2005/09/21

Measurement Condition : Tiga 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	-7.03	-11.17	-8.83	-7.60
	Vertical	-3.26	-7.32		
Y-Z	Horizontal	-0.13	-5.23	-5.39	
	Vertical	-1.01	-5.55		
Z-X	Horizontal	-8.32	-12.70	-9.96	
	Vertical	-1.40	-8.29		

X-Y Plane All Avg. (All Freq.)	-9.2 dBi
Y-Z Plane All Avg. (All Freq.)	-6.2 dBi
Z-X Plane All Avg. (All Freq.)	-10.9 dBi
All Plane & All Freq. Avg.	-8.3 dBi

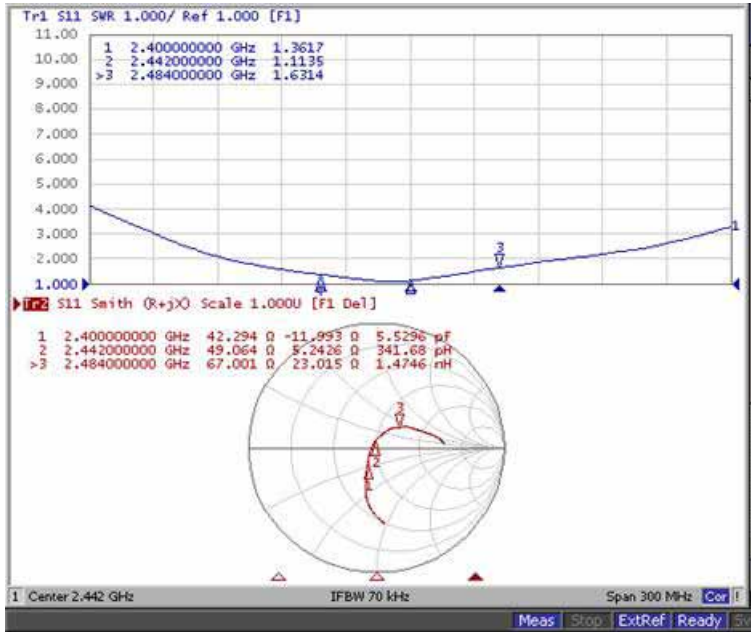
f=2442MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-7.35	-13.22	-8.95	-8.26
	Vertical	-3.30	-6.84		
Y-Z	Horizontal	-1.26	-6.63	-6.21	
	Vertical	-1.43	-5.83		
Z-X	Horizontal	-8.01	-13.97	-10.92	
	Vertical	-2.58	-9.15		

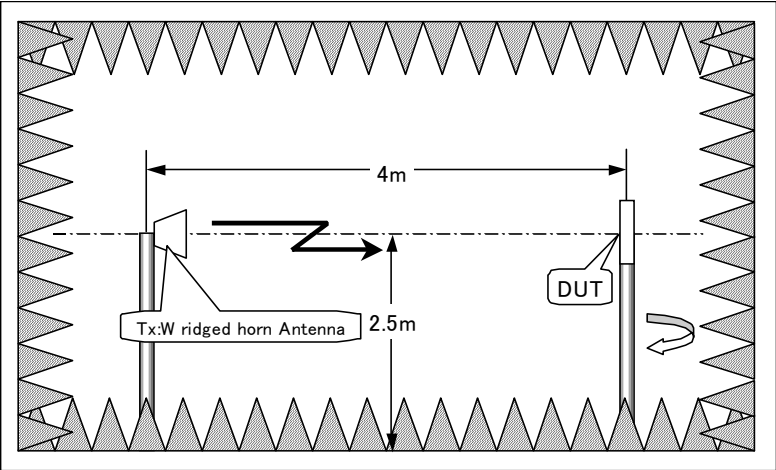
f=2484MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-8.78	-14.85	-9.88	-9.35
	Vertical	-3.72	-7.62		
Y-Z	Horizontal	-2.79	-8.80	-7.36	
	Vertical	-2.19	-6.28		
Z-X	Horizontal	-10.25	-15.66	-12.07	
	Vertical	-3.86	-10.13		

VSWR



Measurement Condition

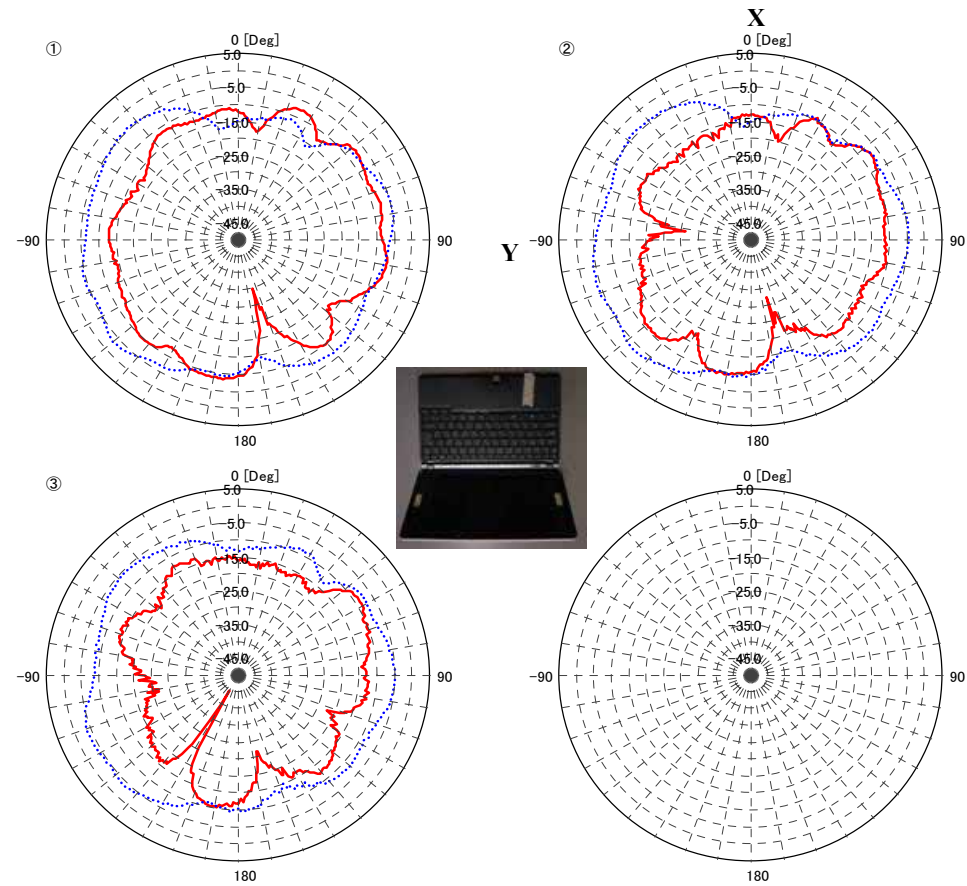


Antenna Coordinated



Field Pattern X-Y Plane

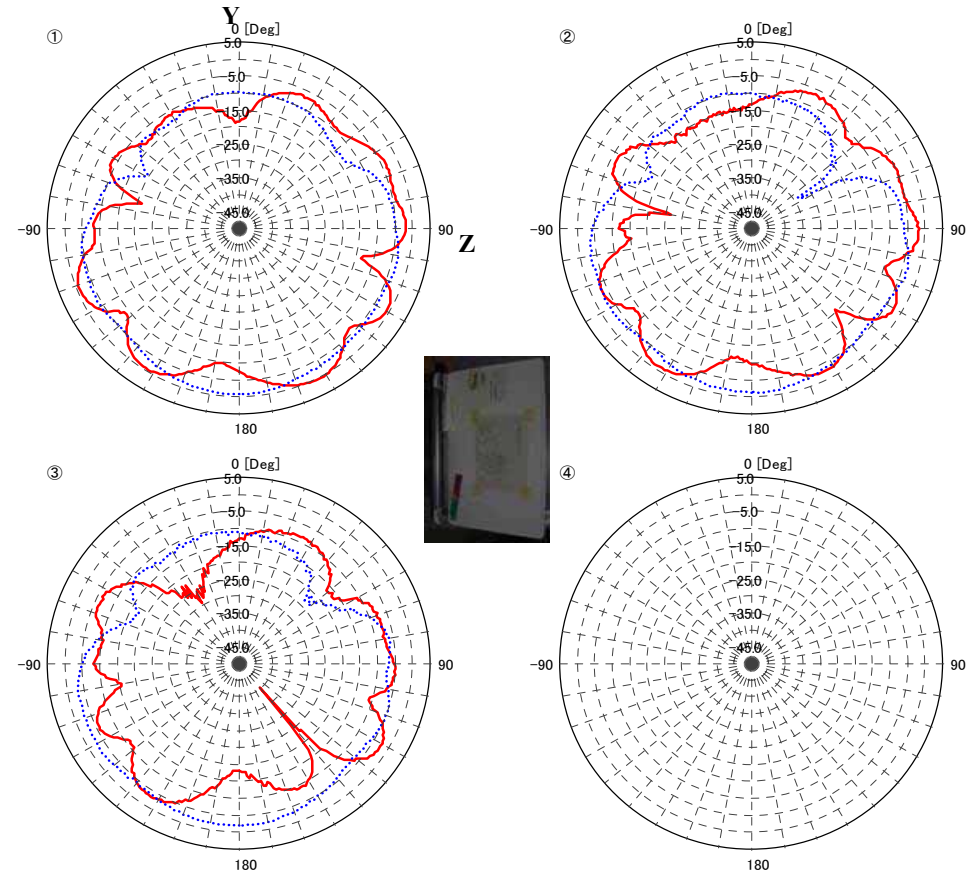
All AVG. -9.19[dBi]
All MAX. AVG. -5.04[dBi]



	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—————	①	2400.00	Horizontal		-7.03	-11.17
2	—————	②	2442.00			-7.35	-13.22
3	—————	③	2484.00			-8.78	-14.85
4		①	2400.00	Vertical		-3.26	-7.32
5		②	2442.00			-3.30	-6.84
6		③	2484.00			-3.72	-7.62

Field Pattern Y-Z Plane

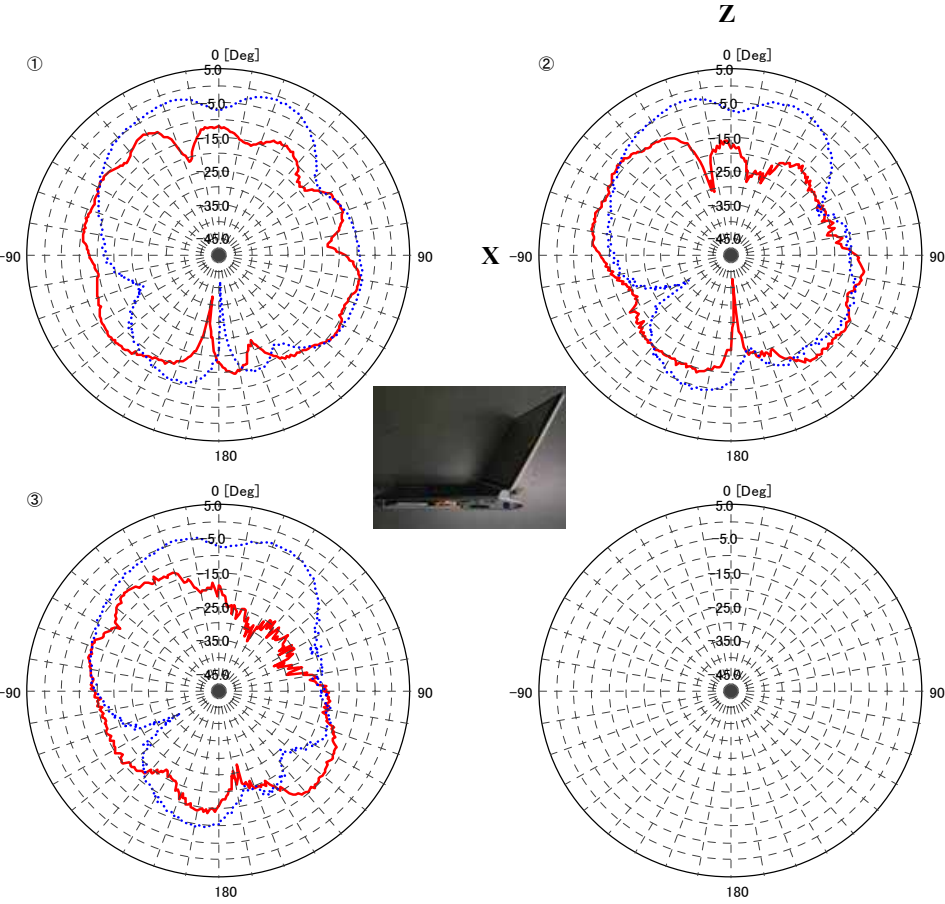
All AVG. -6.25[dBi]
All MAX. AVG. -1.39[dBi]



	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—	①	2400.00	Horizontal		-0.13	-5.23
2	—	②	2442.00			-1.26	-6.63
3	—	③	2484.00			-2.79	-8.80
4		①	2400.00	Vertical		-1.01	-5.55
5		②	2442.00			-1.43	-5.83
6		③	2484.00			-2.19	-6.28

Field Pattern Z-X Plane

All AVG. -10.90[dBi]
All MAX. AVG. -4.58[dBi]



	Line	No.	Frequency[MHz]	MEMO		MAX. Gain[dBi]	AVG. Gain[dBi]
1	—	①	2400.00	Horizontal		-8.32	-12.70
2	—	②	2442.00			-8.01	-13.97
3	—	③	2484.00			-10.25	-15.66
4		①	2400.00	Vertical		-1.40	-8.29
5		②	2442.00			-2.58	-9.15
6		③	2484.00			-3.86	-10.13