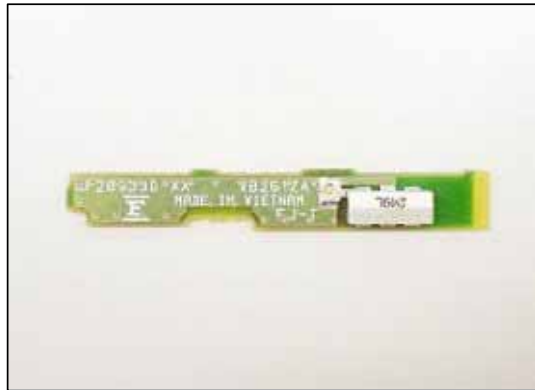


Bluetooth Antenna Specification

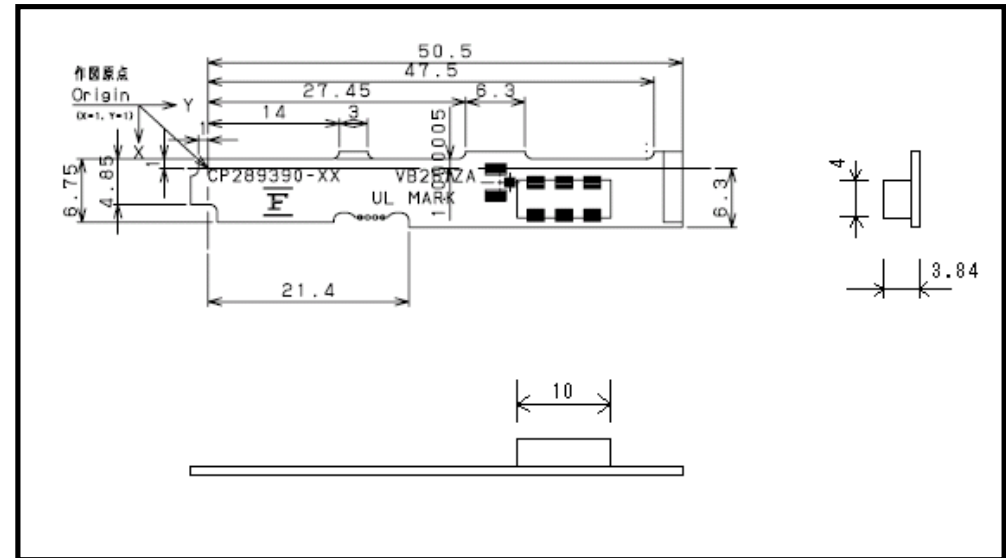
2006.3.6
FUJITSU Limited

Model: CP289390

Appearance:



Dimension:



Features:

Impedance

50Ω

Frequency Band

2400 ~ 2500MHz

MAX Gain: 0.38dBi

VSWR: 1.204

To : FUJITSU LIMITED

Application : For Bluetooth

Measurement Institution : Yokowo No.3 Radio Measuring Site

Antenna Model : YCE-5250

Date : 2006/02/15

Measurement Condition : Gaura Disp.-Open

Measured by : M.Matsuzaki

Antenna Matching : Non

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

f=2400MHz

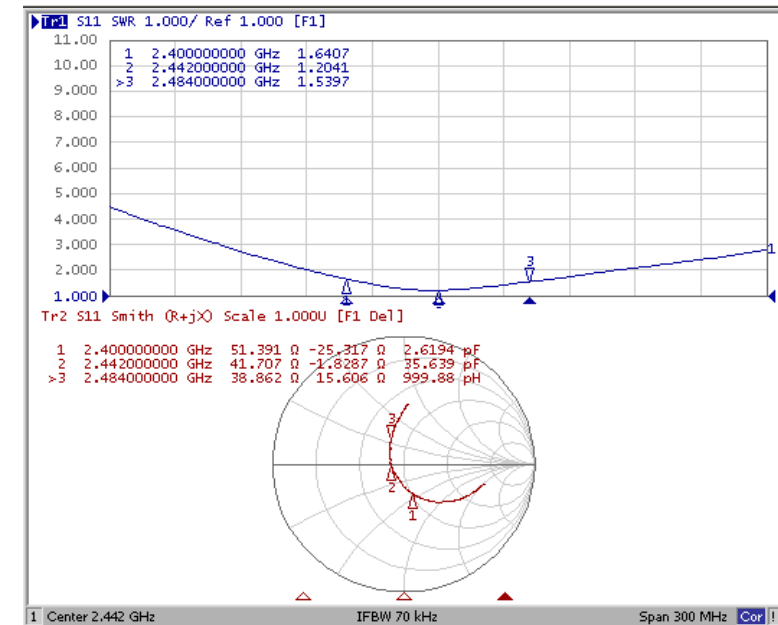
Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-0.44	-5.47	-7.51	-6.68
	Vertical	-6.79	-11.48		
Z-Y	Horizontal	0.15	-6.35	-6.29	
	Vertical	-1.51	-6.23		
Z-X	Horizontal	-4.39	-11.49	-6.35	
	Vertical	-0.39	-4.06		

X-Y Plane All Avg. (All Freq.)	-7.3 dBi
Z-Y Plane All Avg. (All Freq.)	-6.2 dBi
Z-X Plane All Avg. (All Freq.)	-6.7 dBi
All Plane & All Freq. Avg.	-6.7 dBi

f=2442MHz

Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-1.18	-5.38	-7.05	-6.54
	Vertical	-3.91	-9.81		
Z-Y	Horizontal	0.01	-6.20	-5.95	
	Vertical	-0.53	-5.72		
Z-X	Horizontal	-4.55	-11.20	-6.69	
	Vertical	0.36	-4.53		

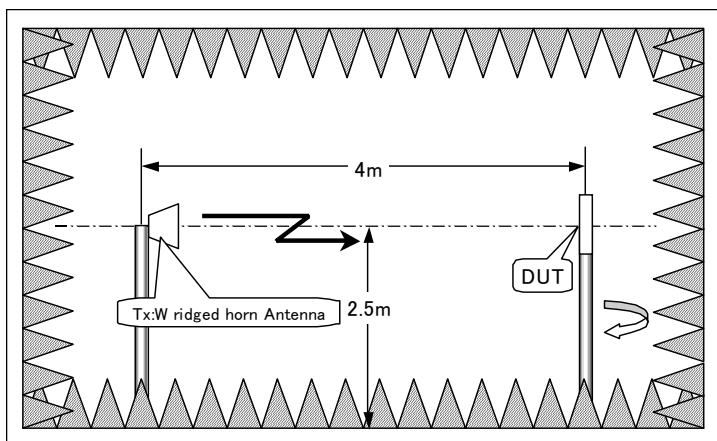
VSWR



f=2484MHz

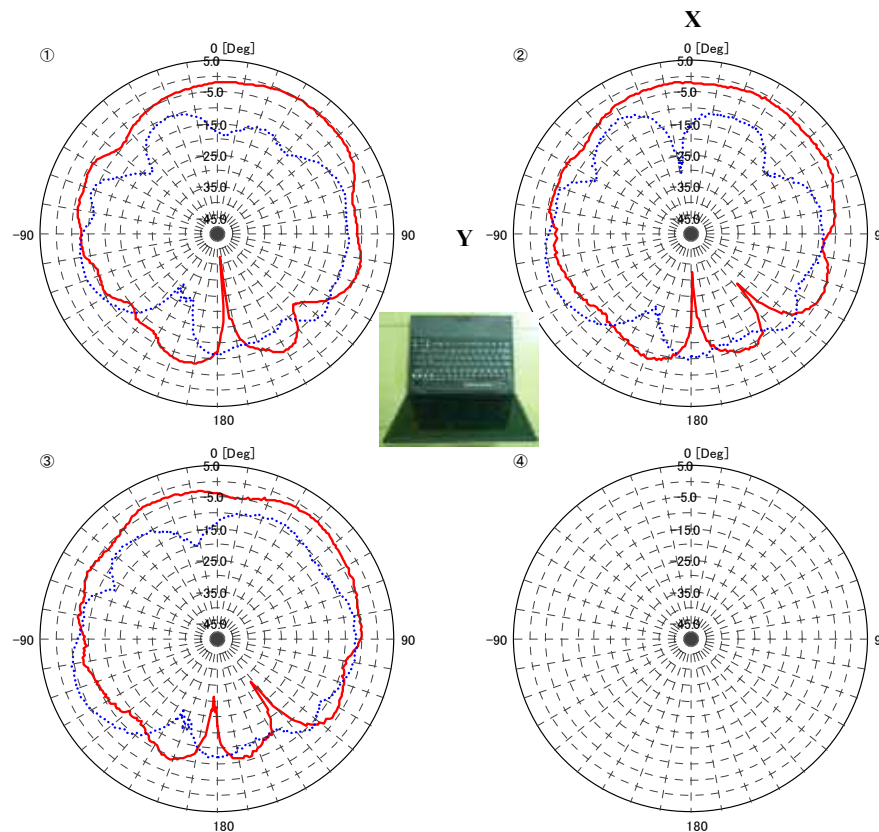
Plane	Tx	Peak. Gain [dBi]	Avg. Gain [dBi]	Tx H & V Avg. [dBi]	Each Freq. Avg. [dBi]
X-Y	Horizontal	-1.58	-6.05	-7.38	-6.96
	Vertical	-3.60	-9.31		
Z-Y	Horizontal	-0.19	-6.26	-6.45	
	Vertical	-0.71	-6.64		
Z-X	Horizontal	-5.87	-11.79	-7.12	
	Vertical	0.38	-4.92		

Measurement Condition



Field Pattern X-Y Plane

All AVG. -7.31[dBi]
All MAX. AVG. -2.45[dBi]



Antenna Coordinated



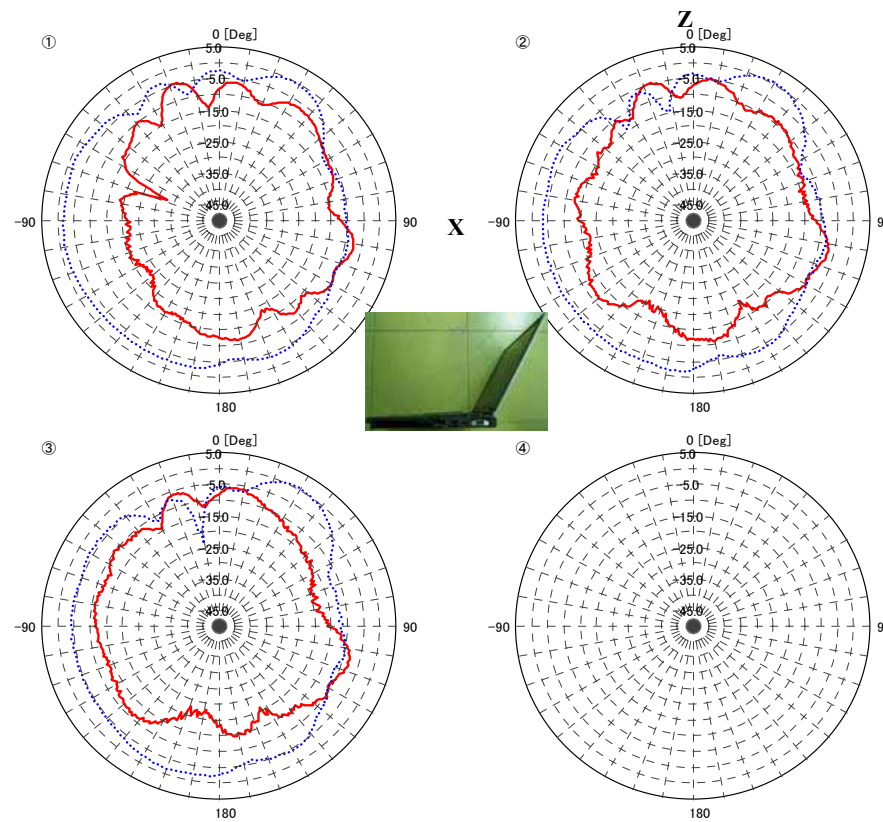
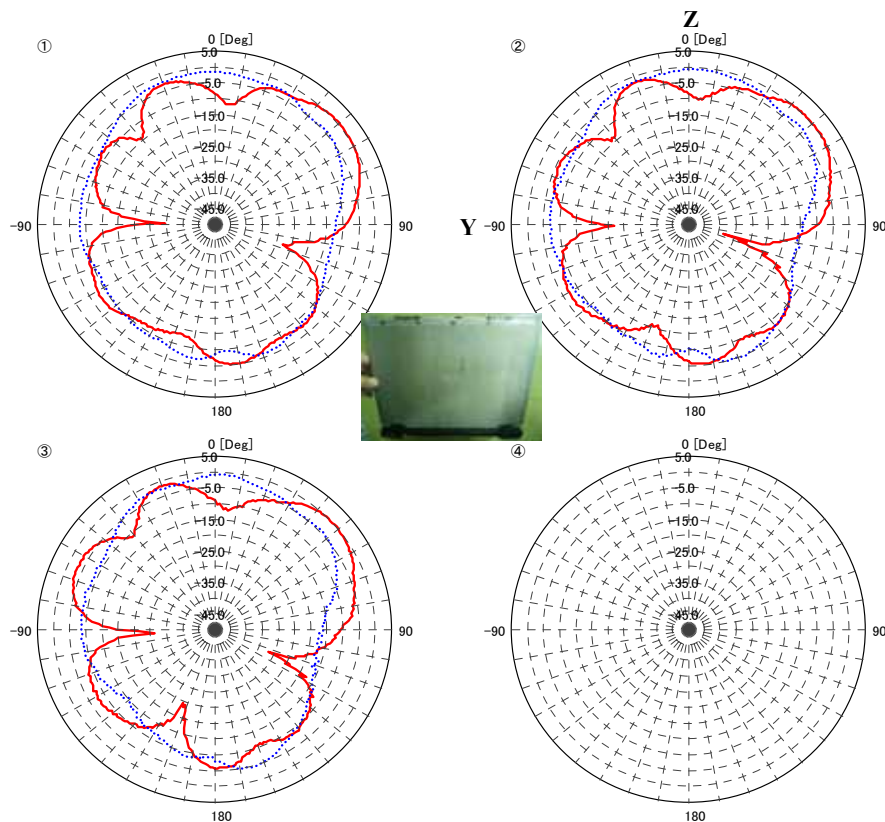
Line	No.	Frequency[MHz]	MEMO	MAX. Gain[dBi]	AVG. Gain[dBi]
1	①	2400.00	Horizontal	-0.44	-5.47
2	②	2442.00		-1.18	-5.38
3	③	2484.00		-1.58	-6.05
4	①	2400.00	Vertical	-6.79	-11.48
5	②	2442.00		-3.91	-9.81
6	③	2484.00		-3.60	-9.31

Field Pattern Z-Y Plane

All AVG. -6.23[dBi]
All MAX. AVG. -0.43[dBi]

Field Pattern Z-X Plane

All AVG. -6.71[dBi]
All MAX. AVG. -1.69[dBi]



Line	No.	Frequency[MHz]	MEMO	MAX. Gain[dBi]	AVG. Gain[dBi]
1	①	2400.00	Horizontal	0.15	-6.35
2	②	2442.00		0.01	-6.20
3	③	2484.00		-0.19	-6.26
4	①	2400.00	Vertical	-1.51	-6.23
5	②	2442.00		-0.53	-5.72
6	③	2484.00		-0.71	-6.64

Line	No.	Frequency[MHz]	MEMO	MAX. Gain[dBi]	AVG. Gain[dBi]
1	①	2400.00	Horizontal	-4.39	-11.49
2	②	2442.00		-4.55	-11.20
3	③	2484.00		-5.87	-11.79
4	①	2400.00	Vertical	-0.39	-4.06
5	②	2442.00		0.36	-4.53
6	③	2484.00		0.38	-4.92