

Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G V.S.W.R.	1H Cable Loss (dBi)
(P/N:CP250925-03 R side) Main antenna	NISSEI ELECTRIC CO..	Inverted-F	P/N: RF-MF50161 50 ohm Coaxial. length: 340mm diameter: 1.13mm Connector: U.FL	2400-2500MHz 0.56 dBi (peak)	2400-2500MHz 1.69 dBi (peak)	2400-2500MHz 2.00 max	2400-2500MHz 1.13 dB (peak)
				5150-5350MHz 1.79 dBi (peak)	5150-5350MHz 3.54 dBi (peak)	5150-5350MHz 2.00 max	5150-5350MHz 1.75 dB (peak)
				5470-5725MHz 1.22 dBi (peak)	5470-5725MHz 3.04 dBi (peak)	5470-5725MHz 2.00 max	5470-5725MHz 1.82 dB (peak)
				5725-5850MHz 0.77 dBi (peak)	5725-5850MHz 2.67 dBi (peak)	5725-5850MHz 2.00 max	5725-5850MHz 1.90 dB (peak)
(P/N:CP250925-03 L side) Auxiliary antenna	NISSEI ELECTRIC CO..	Inverted-F	P/N: RF-MF50161 50 ohm Coaxial. length: 415mm diameter: 1.13mm Connector: U.FL	2400-2500MHz 0.73 dBi (peak)	2400-2500MHz 2.11 dBi (peak)	2400-2500MHz 2.00 max	2400-2500MHz 1.38 dB (peak)
				5150-5350MHz 2.01 dBi (peak)	5150-5350MHz 4.14 dBi (peak)	5150-5350MHz 2.00 max	5150-5350MHz 2.13 dB (peak)
				5470-5725MHz 3.08 dBi (peak)	5470-5725MHz 5.30 dBi (peak)	5470-5725MHz 2.00 max	5470-5725MHz 2.22 dB (peak)
				5725-5850MHz 3.08 dBi (peak)	5725-5850MHz 5.40 dBi (peak)	5725-5850MHz 2.00 max	5725-5850MHz 2.32 dB (peak)

Antenna Average & Peak Gain (XY plane)

Right(Main) Antenna

Frequency [MHz]	Polarization	Peak Gain [dBi]	Average Gain [dBi]
2400	Horizontal	0.56	-5.55
	Vertical	-0.91	-4.45
2450	Horizontal	-0.01	-5.94
	Vertical	-0.77	-4.09
2500	Horizontal	0.00	-5.47
	Vertical	-0.64	-3.60
5150	Horizontal	-2.25	-6.56
	Vertical	0.33	-4.83
5250	Horizontal	-2.84	-7.09
	Vertical	1.08	-4.55
5350	Horizontal	-2.80	-7.41
	Vertical	1.79	-4.08
5470	Horizontal	-2.48	-7.32
	Vertical	1.22	-3.60
5730	Horizontal	-3.43	-8.26
	Vertical	-1.00	-4.72
5875	Horizontal	-3.91	-8.90
	Vertical	0.77	-4.51

* Antenna gain includes the connector and cable loss.

Left(AUX) Antenna

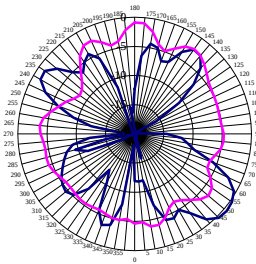
Frequency [MHz]	Polarization	Peak Gain [dBi]	Average Gain [dBi]
2400	Horizontal	-0.38	-5.56
	Vertical	-0.91	-4.13
2450	Horizontal	-0.51	-5.24
	Vertical	-0.76	-3.46
2500	Horizontal	0.73	-5.17
	Vertical	-1.01	-3.51
5150	Horizontal	0.87	-5.55
	Vertical	0.48	-4.96
5250	Horizontal	1.01	-5.56
	Vertical	0.39	-5.13
5350	Horizontal	2.01	-5.37
	Vertical	1.09	-4.78
5470	Horizontal	1.59	-6.16
	Vertical	2.08	-5.21
5730	Horizontal	1.40	-6.81
	Vertical	3.08	-4.37
5875	Horizontal	2.50	-6.12
	Vertical	2.86	-4.27

* Antenna gain includes the connector and cable loss.

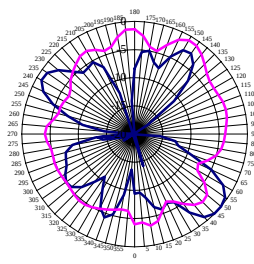
Radiation Pattern (XY plane)

f=2400MHz / 2450MHz / 2500MHz

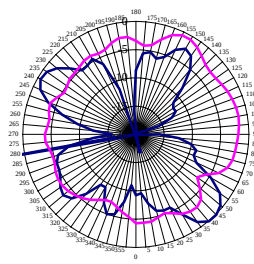
2400 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.55	0.56	-4.45	-0.91



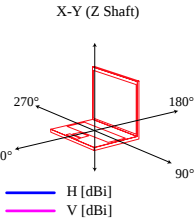
2450 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.94	-0.01	-4.09	-0.77



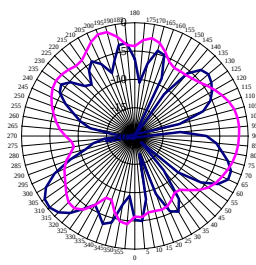
2500 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.47	0.11	-3.60	-0.64



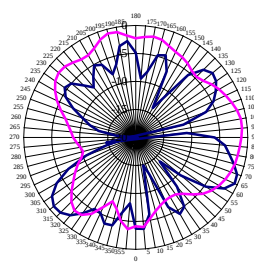
The Measurement Result
Antenna Radiation Pattern
X-Y



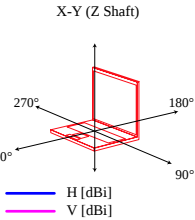
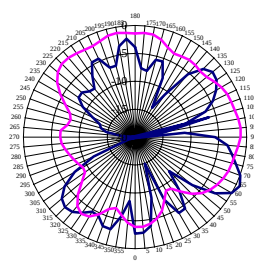
2400 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.56	-0.38	-4.13	-0.91



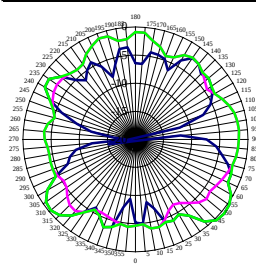
2450 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.24	-0.51	-3.64	-0.76



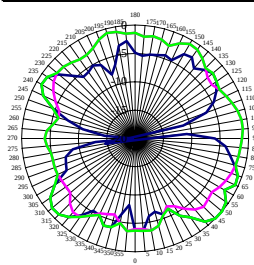
2500 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.17	0.73	-3.51	-1.01



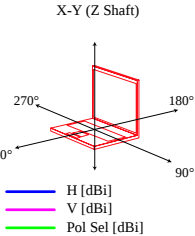
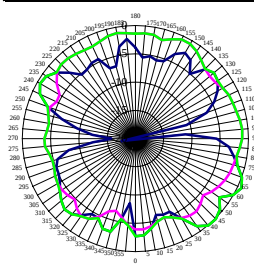
2400 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-4.04	0.56	-3.35	-0.91



2450 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-3.86	-0.01	-2.96	-0.76



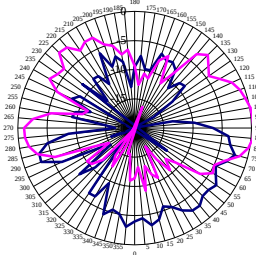
2500 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-3.52	0.73	-2.79	-0.64



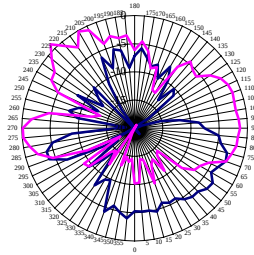
Radiation Pattern (XY plane)

f=5150MHz / 5250MHz / 5350MHz

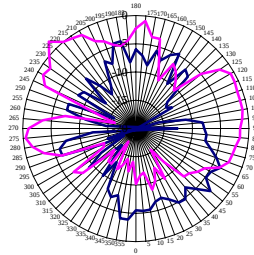
5150 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-6.56	-2.25	-4.83	0.33



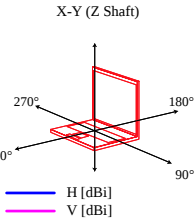
5250 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-7.09	-2.84	-4.55	1.08



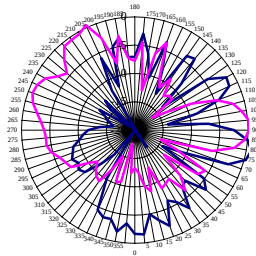
5350 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-7.41	-2.80	-4.08	1.79



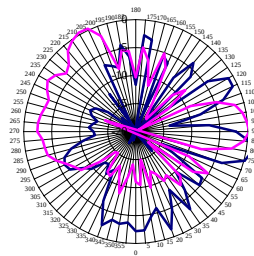
The Measurement Result
Antenna Radiation Pattern
X-Y



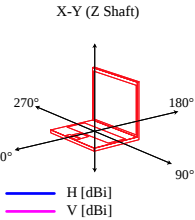
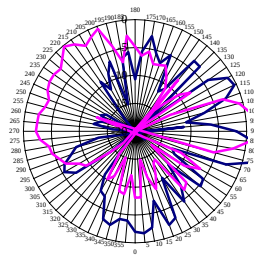
5150 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.55	0.87	-4.96	0.48



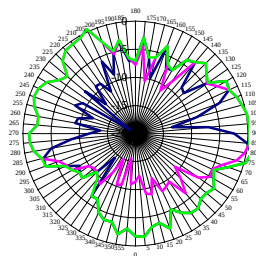
5250 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.65	1.01	-5.13	0.39



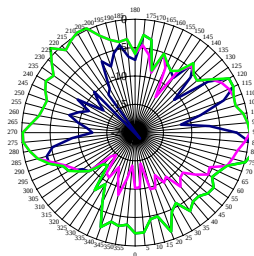
5350 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-5.37	2.01	-4.78	1.09



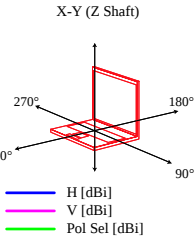
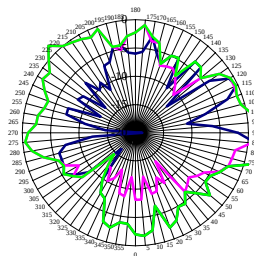
5150 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-4.67	0.87	-3.75	0.48



5250 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-4.87	1.01	-3.80	1.08



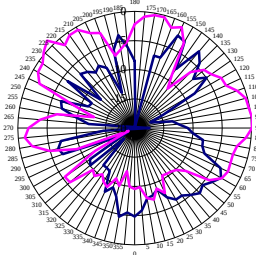
5350 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-4.63	2.01	-3.33	1.79



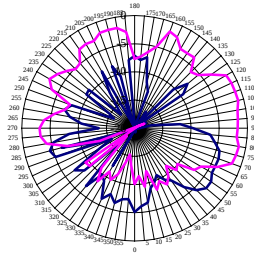
Radiation Pattern (XY plane)

f=5470MHz / 5730MHz / 5875MHz

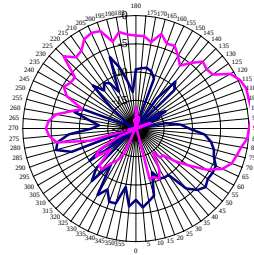
5470 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-7.32	-2.48	-3.60	1.22



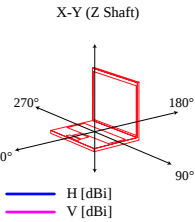
5730 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-8.26	-3.43	-4.72	-1.00



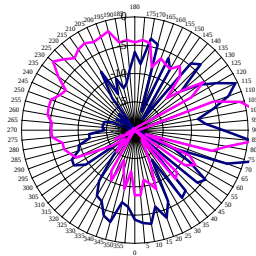
5875 MHz			
R Antenna			
H Ave.	H Peak	V Ave.	V Peak
-8.90	-3.91	-4.51	0.77



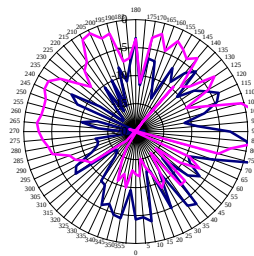
The Measurement Result
Antenna Radiation Pattern
X-Y



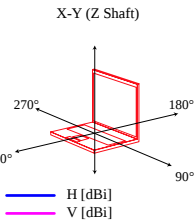
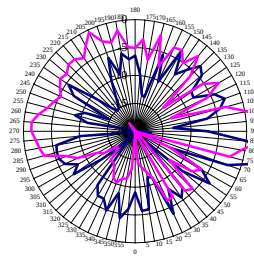
5470 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-6.16	1.59	-5.21	2.08



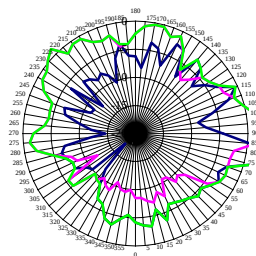
5730 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-6.81	1.40	-4.37	3.08



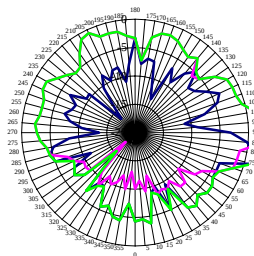
5875 MHz			
L Antenna			
H Ave.	H Peak	V Ave.	V Peak
-6.12	2.50	-4.27	2.86



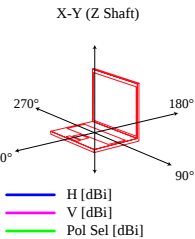
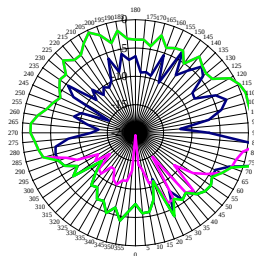
5470 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-4.97	1.59	-3.08	2.08



5730 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-5.82	1.40	-3.43	3.08



5875 MHz			
Diversity			
H Ave.	H Peak	V Ave.	V Peak
-5.62	2.50	-3.35	2.86



Antenna Pic

Right(Main) Antenna



Left(AUX) Antenna



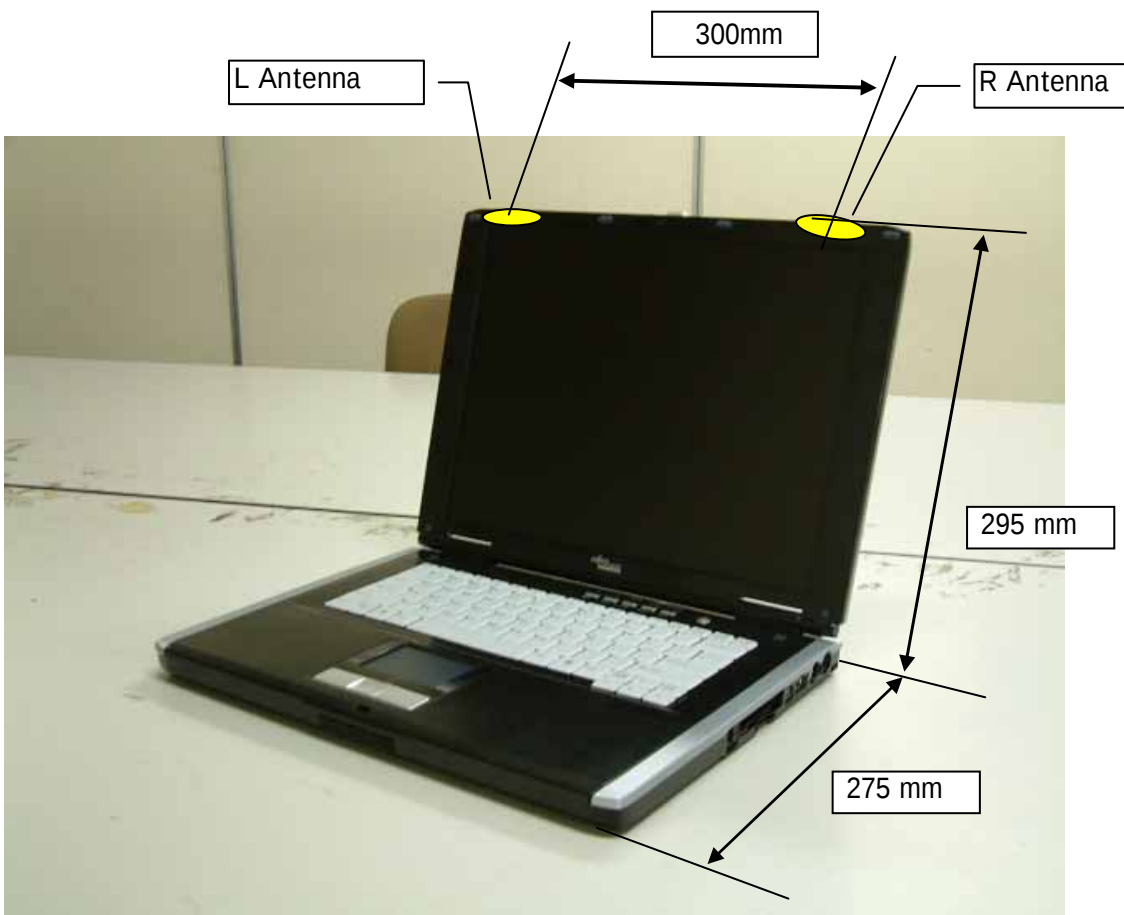
Antenna Summary Cotton

Designator Manufacture	Fujitsu
Antenna Type	Inverted-F Antenna
Cable type (length)	Coax(about 480mm)
P/N	CP250925
Gain	4.9-5.8GHz MAX : 5.40(dBi) *see Note 2.4-2.48GHz MAX : 2.11(dBi) *see Note

Note:Note that the maximum(peak) antenna gain includes all cable losses.

Picture:

Front View



Rear View







