

P2 Antenna Regulatory Information

Description : Triple-band Antenna(Main+Aux)
Quanta Computer Inc. P/N: DQ6B1500106
DQ610225001

Wistron NeWeb Corporation

**No. 10-1,Li-hsin Road I,
Science-base Industrial Park,
Hsinchu 300,Taiwan, R.O.C.
Tel: 886-3-6667799#6545
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Provided by Wistron NeWeb Corp.	Reviewed by Wistron NeWeb Corp.
<i>Patrick Lee</i>	<i>Weili Cheng</i>

I. Antenna Type

Position	Main Antenna (Left-side Antenna)	Aux Antenna (Right-side Antenna)
Antenna Type	PIFA	PIFA
Material	Metal sheet	Metal sheet

II. Peak Gain

Antenna Gain		2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.875 GHz)		
		2.4GHz	2.45GHz	2.5GHz	4.9GHz	5.125GHz	5.35GHz	5.47GHz	5.673GHz	5.875GHz
MAIN	Peak dBi	1.51	0.75	0.42	0.8	1.58	2.51	4.13	3.56	2.55
	Avg dBi	-2.45	-2.05	-2.29	-3	-3.24	-2.61	-2.21	-1.64	-2.75
AUX	Peak dBi	1.48	-0.39	0.85	0.77	0.14	0.35	1.99	3.73	4.49
	Avg dBi	-1.81	-2.66	-2.12	-3.37	-4.12	-3.53	-2.97	-0.75	-1.67

III. Antenna Model Number

Model number: EBB-Q

IV. Manufacturing Info

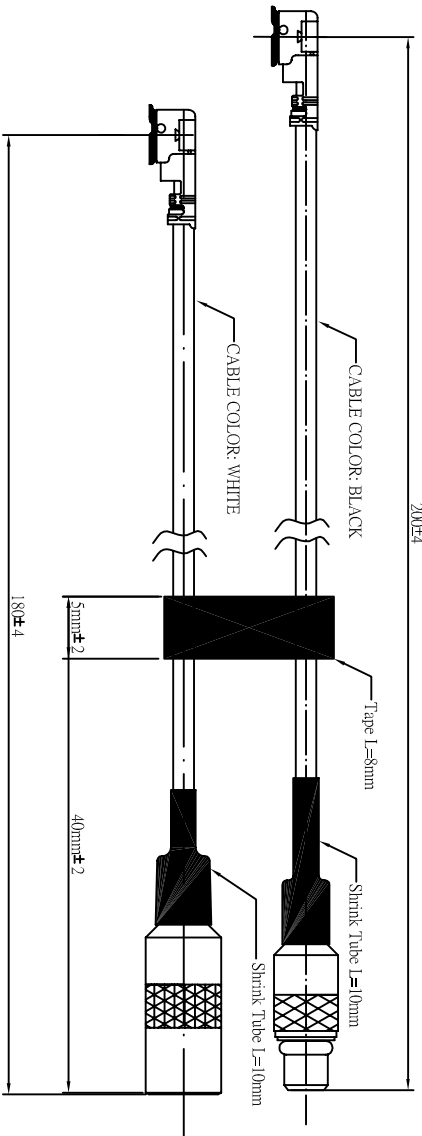
Wistron NeWeb Corporation
No. 10-1, Li-hsin Road I,
Science-base Industrial Park,
Hsinchu 300, Taiwan, R.O.C.

V. Antenna Dimensions (Mechanical drawings)

(See Next 2 Pages)

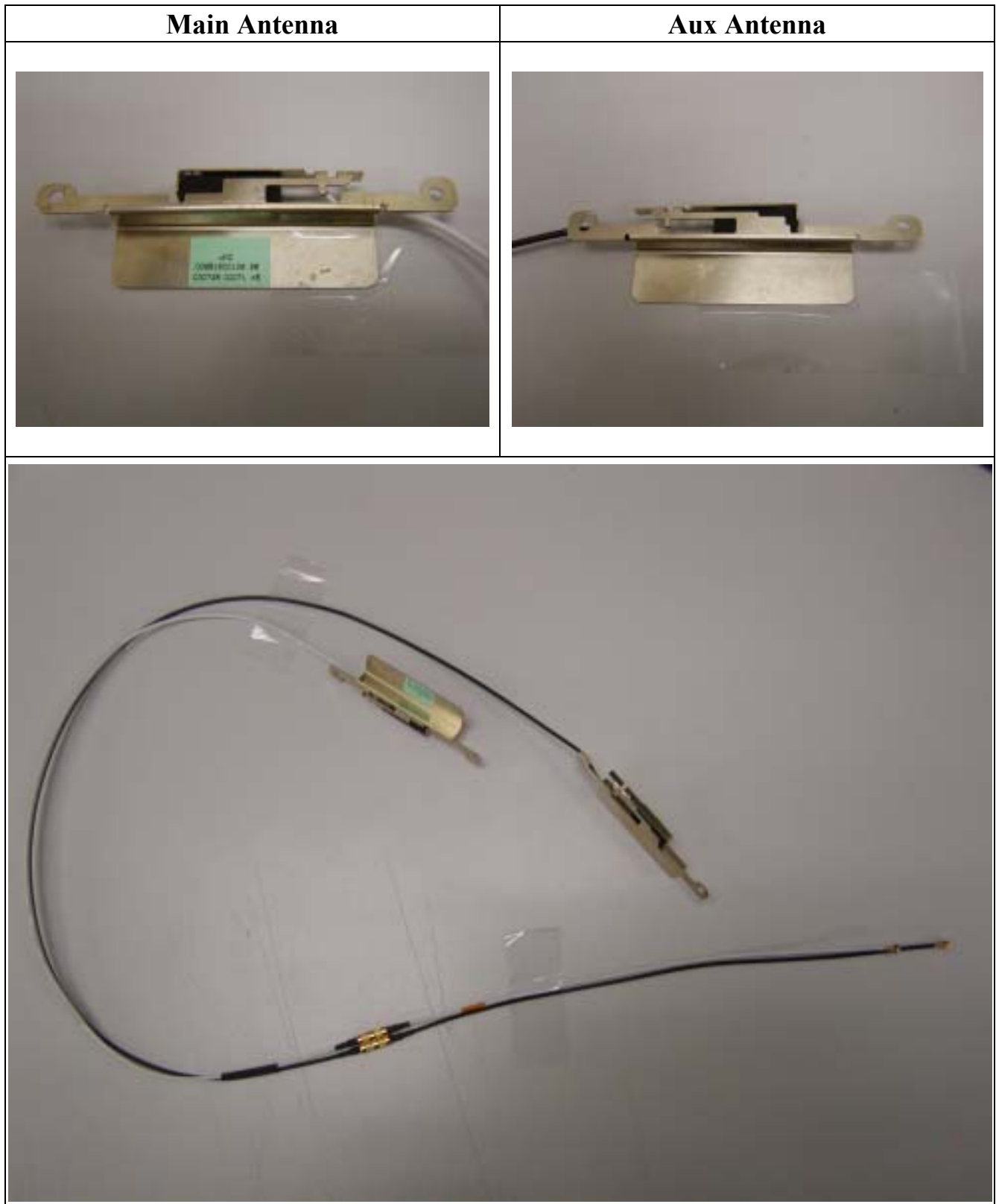
PART NUMBER BLOCK	
PART NUMBER	REV
81.EBB15.003	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE:		DRAWN		PATRICK LEE		07/18/03		SIZE		DWG NO.		REV	
1 DECIMAL ±0.2		ENGR		PATRICK LEE		07/18/03		A3		NO		X2	
2 PLACE DECIMALS ±0.05		APVD						SCALE		1/1		SHEET 1 OF 1	
MATERIAL: SEE NOTES		THIRD ANGLE PROJECTION						DWG TITLE		EBB-Q MMCX-IPEX DRAWING			
FINISH: SEE NOTES								Wistron		No. 10-1, U-high Road 1, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C. Tel: 886-3-6687793 Fax: 886-3-6687711			
NEXT ASSY		USED ON											
APPLICATION													

VI. Pictures of Antennas



VII. Cable Length

Left-side antenna: 367mm Φ 1.37mm + 180mm Φ 1.37mm
Right-side antenna: 467mm Φ 1.37mm + 200mm Φ 1.37mm
(From the center of connector to the end of cable)

VIII. Cable Loss (including connector)

Unit: dB	2G4 band	U-NII band	HyperLAN band
367mm+180mm	1.78	3.50	3.73
467mm+200mm	2.25	3.68	4.13

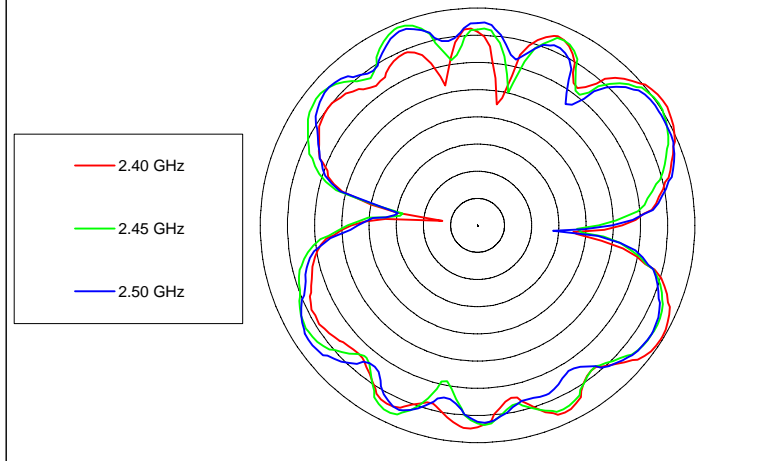
IX. Antenna Material

Main antenna	Aux antenna
1. Stamped metal	1. Stamped metal
2. Junkosha cable and IPEX connector (Nissei cable and HRS connector)	2. Junkosha cable and IPEX connector (Nissei cable and HRS connector)
3. Sponge	3. Sponge
4. Tape	4. Tape
5. MMCX connector (Plug and Jack)	5. MMCX connector (Jack and Plug)

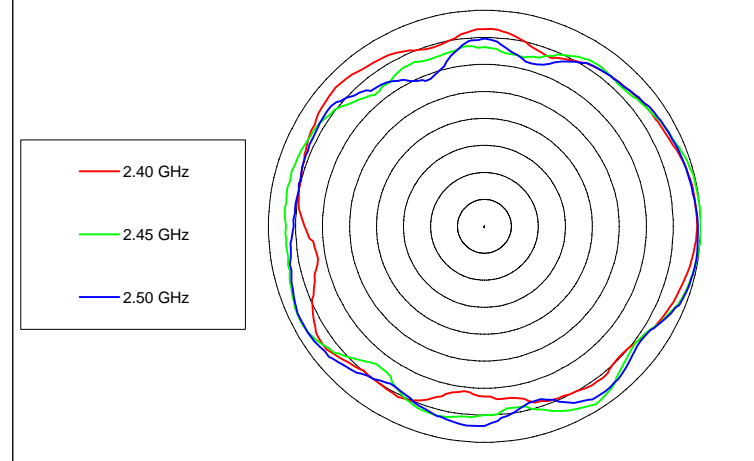
Platform: P2-001
 Supplier: Wistron NeWeb coporation
 Date: 2003/7/24

2G4 ISM (2.400 GHz - 2.4835 GHz) Antenna Radiation Patterns

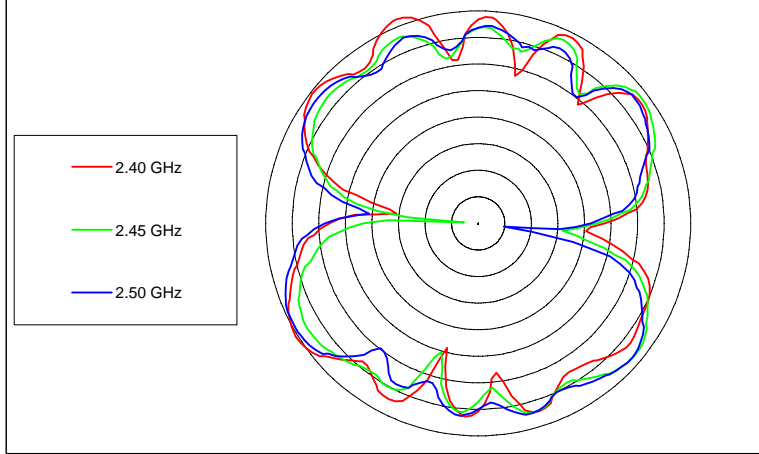
Main Horizontal



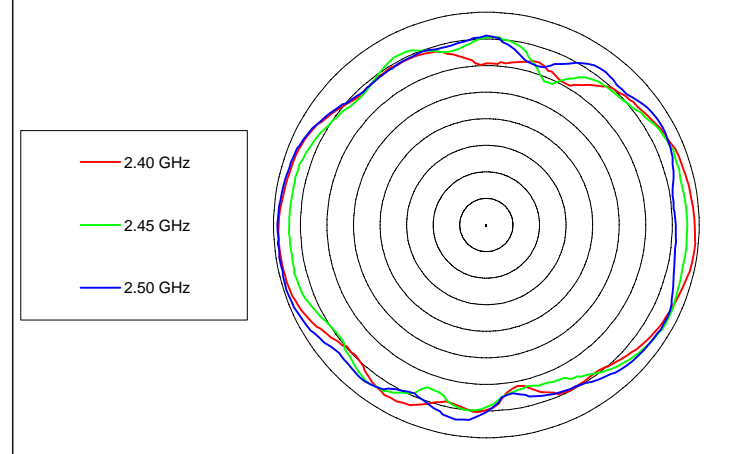
Main Vertical



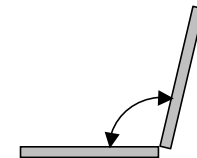
Aux Horizontal



Aux Vertical



2G4 ISM (2.400 GHz - 2.4835 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	2.4	-4.63	1.15
	2.45	-4.48	0.23
	2.5	-4.72	-0.54
Main Vert	2.4	-3.95	-0.61
	2.45	-3.40	0.15
	2.5	-3.58	-0.31
Aux Horz	2.4	-3.95	1.40
	2.45	-4.74	-1.22
	2.5	-4.43	-0.37
Aux Vert	2.4	-3.59	-0.59
	2.45	-4.24	-1.53
	2.5	-3.42	-0.49



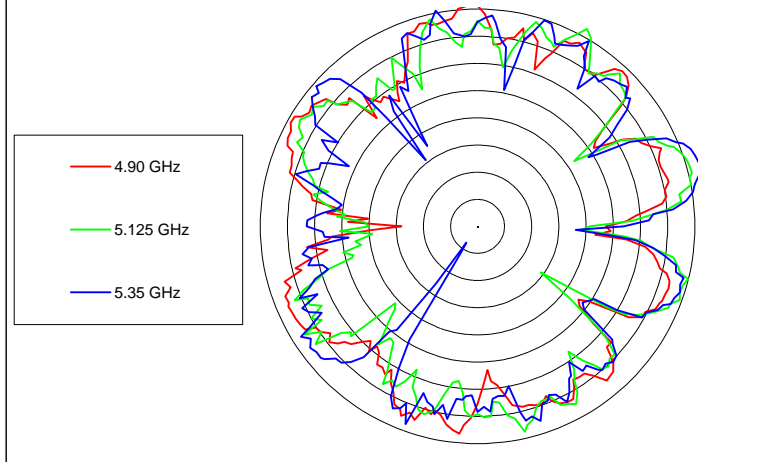
VSWR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle
 Each circle with 5 dBi difference (Max=0 dBi and Min=-40 dBi)

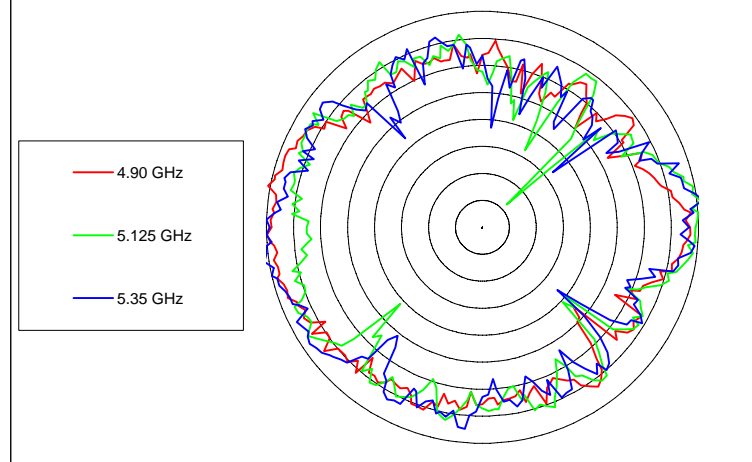
Platform: P2-001
 Supplier: Wistron NeWeb coporation
 Date: 2003/7/24

U-NII (4.90 GHz - 5.350 GHz) Antenna Radiation Patterns

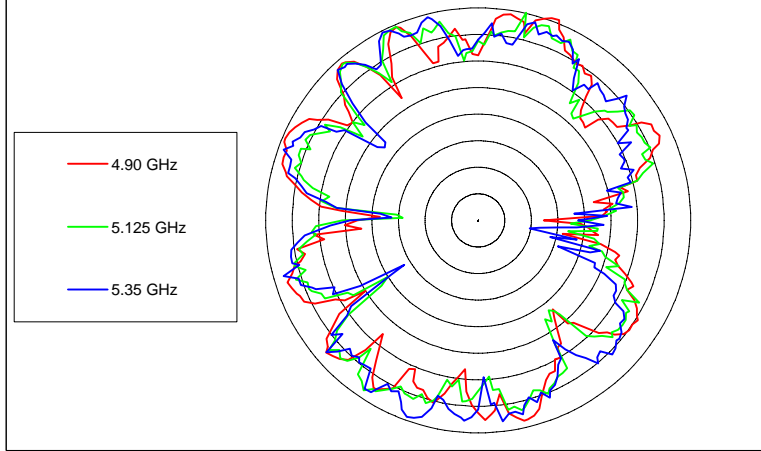
Main Horizontal



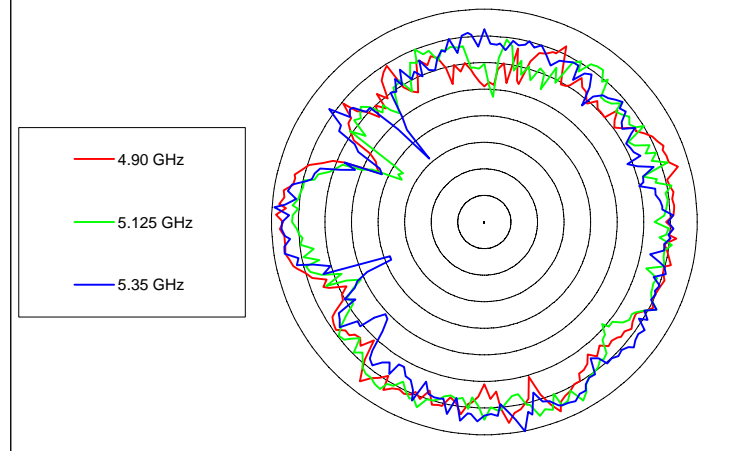
Main Vertical



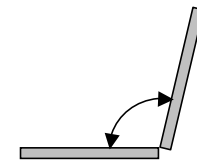
Aux Horizontal



Aux Vertical



U-NII (4.90 GHz - 5.350 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	4.9	-4.75	0.79
	5.125	-4.91	1.58
	5.35	-4.43	2.40
Main Vert	4.9	-5.29	0.49
	5.125	-5.60	0.65
	5.35	-4.93	1.10
Aux Horz	4.9	-5.06	0.65
	5.125	-5.80	0.11
	5.35	-5.21	-0.31
Aux Vert	4.9	-5.84	-0.83
	5.125	-6.35	-1.61
	5.35	-5.87	0.04



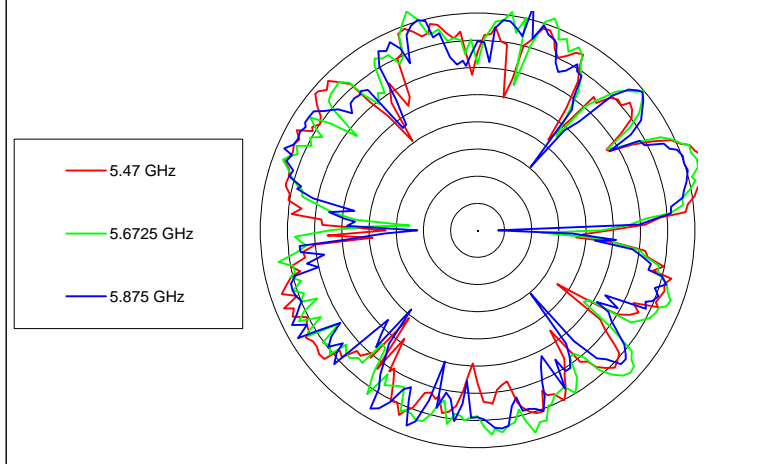
VSWSR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle
 Each circle with 5 dBi difference (Max=0 dBi and Min=-40 dBi)

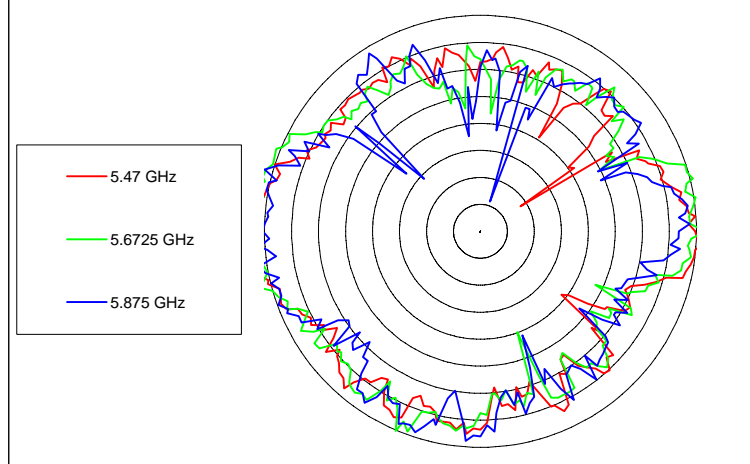
Platform: P2-001
 Supplier: Wistron NeWeb coporation
 Date: 2003/7/24

HyperLAN (5.470 GHz - 5.875 GHz) Antenna Radiation Patterns

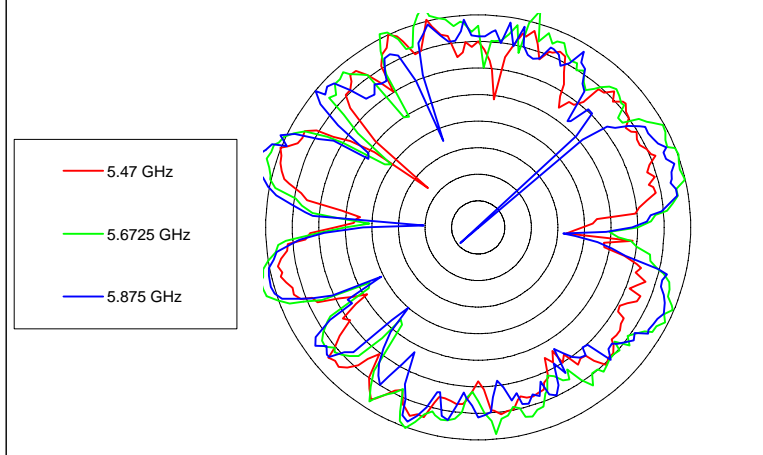
Main Horizontal



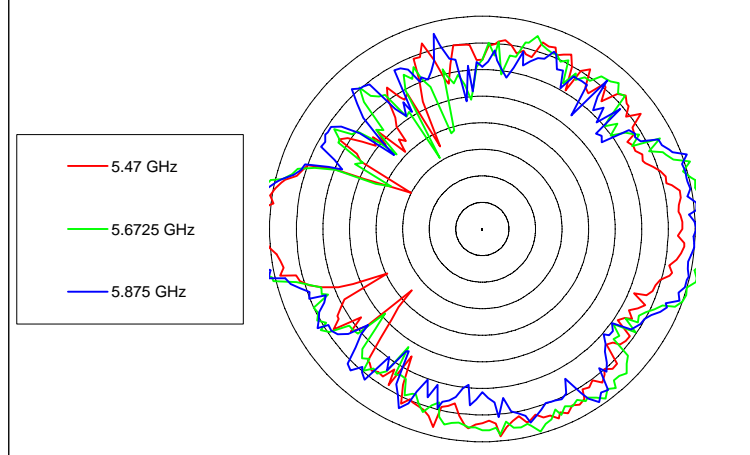
Main Vertical



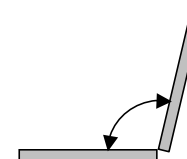
Aux Horizontal



Aux Vertical



HyperLAN (5.470 GHz - 5.875 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	5.47	-4.42	4.09
	5.6725	-3.91	2.44
	5.875	-4.87	2.54
Main Vert	5.47	-4.17	2.47
	5.6725	-3.60	3.56
	5.875	-4.86	1.57
Aux Horz	5.47	-5.38	0.32
	5.6725	-2.81	3.03
	5.875	-3.99	3.79
Aux Vert	5.47	-4.65	1.99
	5.6725	-2.79	3.73
	5.875	-3.45	4.49



VSWR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle
 Each circle with 5 dBi difference (Max=0 dBi and Min=-40 dBi)