

Bondi Antenna Regulatory Infomation

Description : Triple-band Antenna(Main+Aux)
Quanta Computer Inc. P/N: DQ670025C203
DQ617005C201
Wistron NeWeb P/N: 81.CA513.001
81.CA513.002

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	PCB IFA	TIFA
Material	PCB	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 - 5.725 GHz)		
		2.40 GHz	2.45 GHz	2.50GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz
MAIN	Peak dBi	1.87	2.18	1.99	4.50	4.62	4.15	4.38	4.35	3.88
	Avg dBi	-2.02	-2.04	-1.51	-1.45	-1.27	-0.20	-0.39	-0.73	-1.28
AUX	Peak dBi	2.09	2.26	1.50	0.42	1.01	2.31	2.03	1.81	1.72
	Avg dBi	-3.62	-3.89	-3.20	-3.92	-3.81	-3.04	-3.06	-3.19	-3.12

III. Antenna Model Number

Model number: CA5-Q

IV. Manufacturing Info

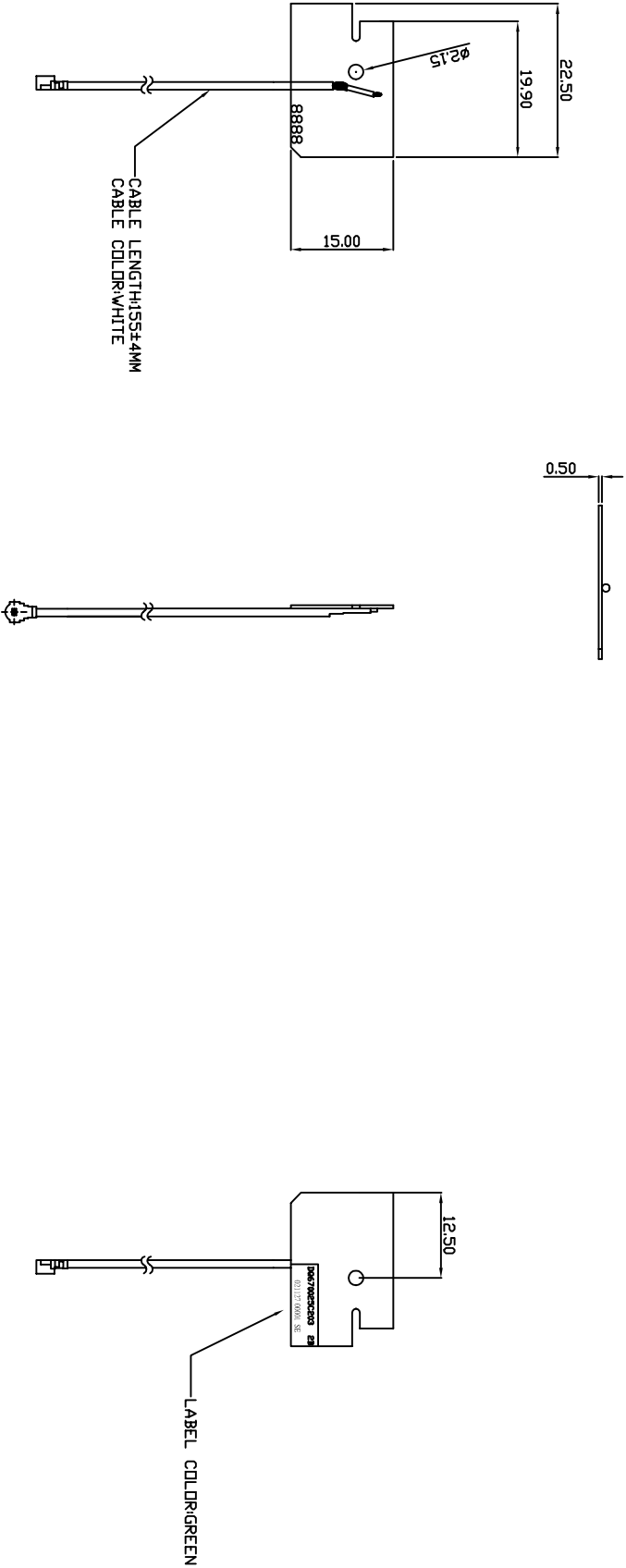
Wistron NeWeb Corporation
No. 10-1,Li-hsin Road I,
Science-base Industrial Park,
Hsinchu 300,Taiwan, R.O.C.

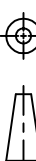
V. Antenna Dimensions (Mechanical drawings)

(See Next 2 Pages)

PART NUMBER BLOCK	
PART NUMBER	REV
81.CA513.001	SE

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	SE	MODIFY VERSION	11/27/02	



		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM AND TOLERANCES ARE:				wistron 威盛科技股份有限公司 No. 100-11-Hsin Road 1, Science-based Industrial Park, Hsinchu City 300, Taiwan, R.O.C. Tel: 886-3-6687793 Fax: 886-3-6687711			
		INTEGRAL DIMENSIONS 1 PLACE DECIMAL 2 PLACE DECIMALS		± 0.35 ± 0.2 ± 0.1		ANGULAR DIMENSIONS HOLES UNDER Ø5.00		± 1° ± 0.05	
		MATERIAL: SEE NOTES							
		FINISH: SEE NOTES							
		THIRD ANGLE PROJECTION		DRAWN		GUO CHANG		11/27/02	
				ENGR		PATRICK LEE		11/27/02	
				APVD		WEILI CHENG		11/27/02	
NEXT ASSY	USED ON			SIZE DWG NO.		NO		REV	
APPLICATION				SCALE		2/1		SHEET 1 OF 1	

wistron 廣基科技股份有限公司
Wistron NetWeb Corp.
No. 10-1, Li-hsin Road 1, Science-based Industrial Park,
Hsinchu 300, Taiwan, R.O.C. Fax: 886-3-6687711
Tel: 886-3-6687799

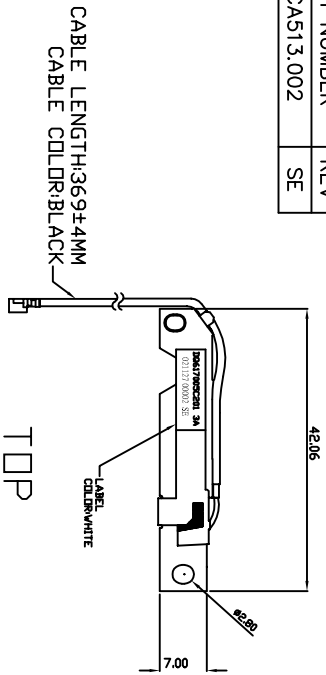
BOND, LEFT
ANTENNA DRAWING

1

2

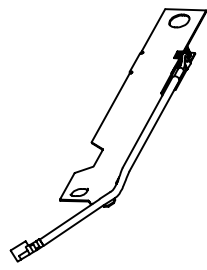
PART NUMBER BLOCK		
PART NUMBER	REV	SE
81.CA513.002		SE

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	SE	MODIFY VERSION	11/27/02	WEILI CHENG



TOP

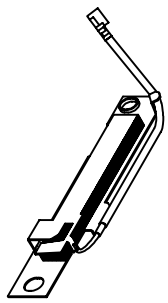
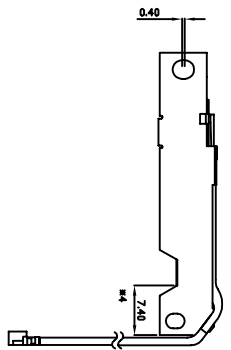
GEN1



FRONT



RIGHT



GEN2

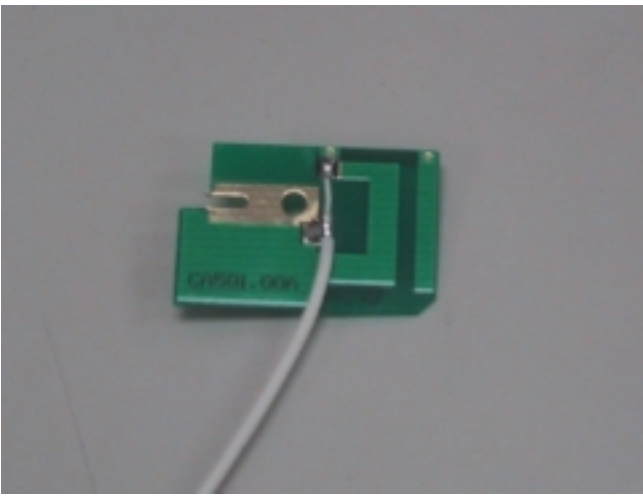
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM. AND TOLERANCES ARE:	
1 PLACE DECIMAL	± 0.35
2 PLACE DECIMALS	± 0.1
ANGULAR DIMENSIONS $\pm 1^\circ$	
HOLES UNDER $\phi 5.00$	

MATERIAL: SEE NOTES		DWG TITLE	
FINISH: SEE NOTES		BOND, RIGHT ANTENNA DRAWING	
THIRD ANGLE PROJECTION		SIZE	DWG NO.
DRAWN		A3	
ENGR		NO	
APVD		2/1	
NEXT ASSY		USED ON	REV SE
APPLICATION			

1

2

VI. Pictures of Antennas

Main Antenna	Aux Antenna
	

VII. Cable Length

Left-side antenna: 155mm Φ 1.13mm

Right-side antenna: 369mm Φ 1.13mm

(From the center of connector to the end of cable)

VIII. Cable Loss (including connector)

Unit: dB	2G4 band	U-NII band	HyperLAN band
155mm	0.8	1.04	1.11
369mm	1.39	2.01	2.13

XI. Antenna Material

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

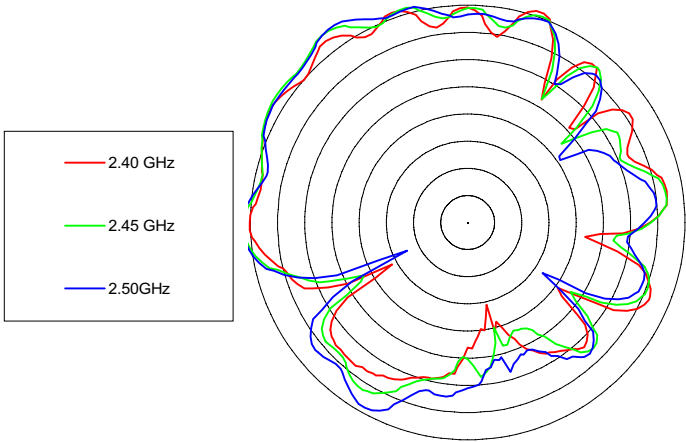
X. Connector Info (general description)

Description (Cable)	Inner Conductor: AWG#32(7/0.8), Silver plating annealed copper wire		
	Dielectric core: D0.68mm		
	Outer conductor: 16/4/0.05 D0.93mm, Silver plating annealed copper wire		
	Jacket: D1.13mm		
Requirements	Characteristic impedance: 50(+2,-2)ohm		
	Nominal capacitance: 97pF/m		
	Conductor resistance of inner conductor at 293K(20℃): 520ohm/km MAX		
	Insulation resistance: 1500mega-ohm.km MIN		
	Dielectric withstand voltage: no breakdown at AC1000V for 1min.		
Ratings	Rated voltage: AC60Vrms		
	Nominal characteristics impedance: 50ohm		
	VSWR: 1.3MAX DC~3GHz, 1.7MAX 3~6GHz		
Electric characteristics	Contact resistance	10mA MAX(DC or 1000Hz)	Center contact 74mohm MAX. Outer contact 27mohm MAX.
	Insulation resistance	100V DC	500Mohm MIN
	Voltage proof	200V AC for 1 min. Current leakage 2mA MAX	No flashover or breakdown

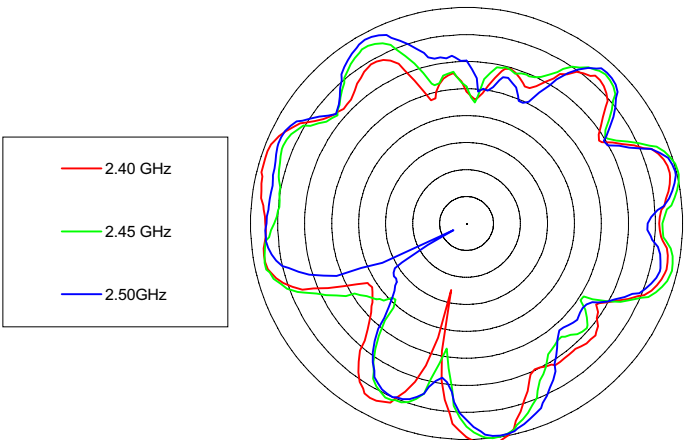
Platform: Bondi
Supplier: Wistron NeWeb coporation
Date: 2002/11/28

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

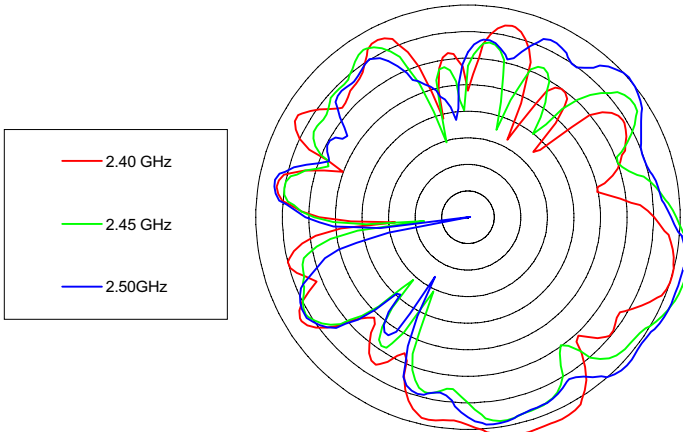
Main Horizontal



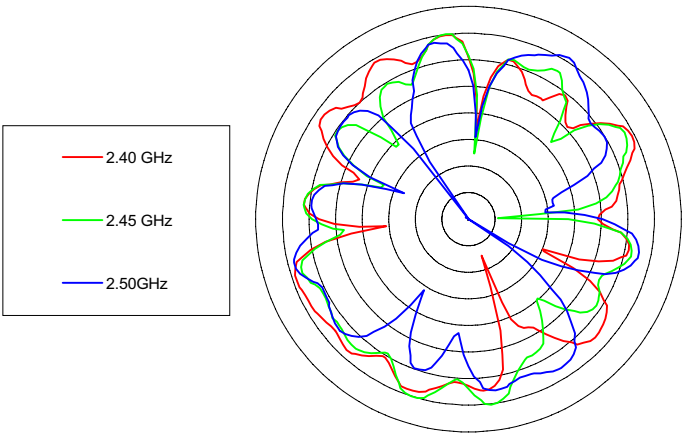
Main Vertical



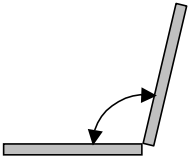
Aux Horizontal



Aux Vertical



2G4 ISM (2.400 GHz - 2.4835 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	2.4	-3.42	1.84
	2.45	-2.77	2.12
	2.5	-2.56	1.95
Main Vert	2.4	-5.05	1.12
	2.45	-4.97	0.32
	2.5	-5.12	-0.17
Aux Horz	2.4	-4.11	2.09
	2.45	-4.39	2.25
	2.5	-3.51	1.47
Aux Vert	2.4	-8.95	-5.16
	2.45	-9.63	-4.86
	2.5	-10.00	-4.28



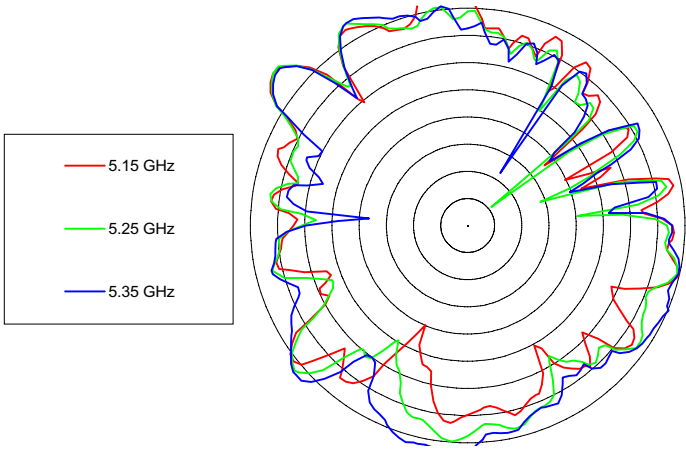
VSWR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle.

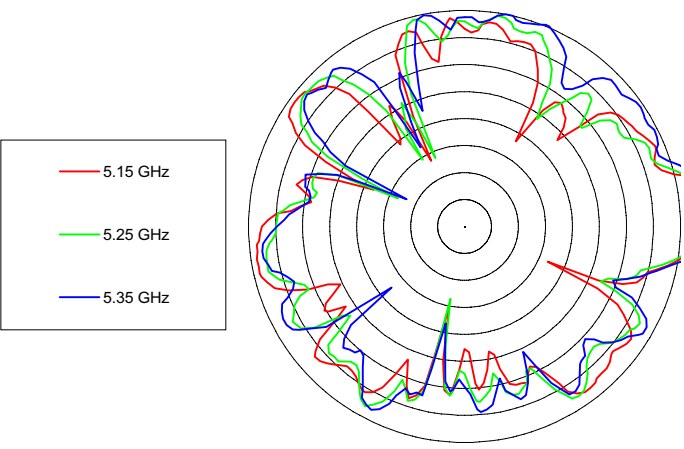
Platform: Platform: Bondi
Supplier: Supplier: Wistron NeWeb coporation
Date: Date: 2002/11/28

U-NII (5.150 GHz - 5.350 GHz) Antenna Radiation Patterns

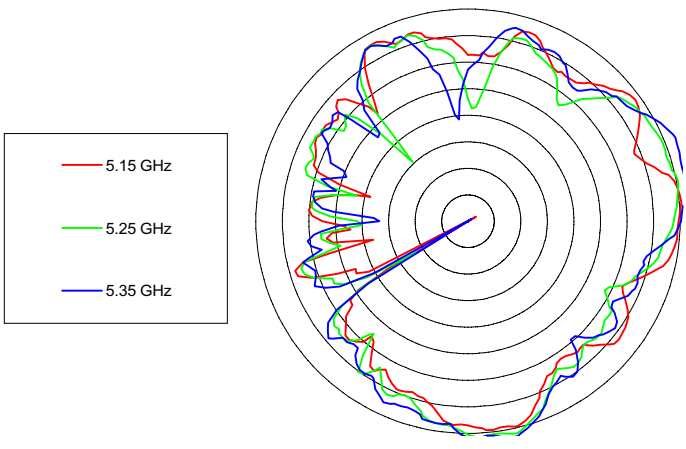
Main Horizontal



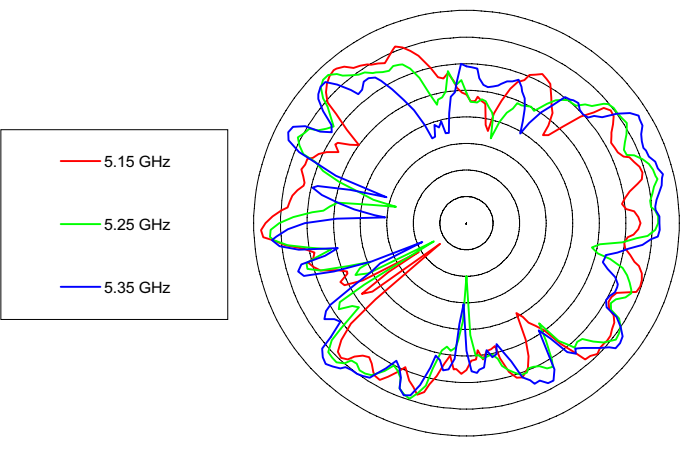
Main Vertical



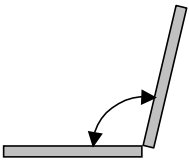
Aux Horizontal



Aux Vertical



U-NII (5.150 GHz - 5.350 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	5.15	-3.00	4.49
	5.25	-2.85	4.62
	5.35	-1.94	4.15
Main Vert	5.15	-4.18	3.51
	5.25	-4.03	3.19
	5.35	-2.94	4.61
Aux Horz	5.15	-4.74	0.40
	5.25	-4.61	1.00
	5.35	-3.75	2.16
Aux Vert	5.15	-8.05	-1.36
	5.25	-7.91	-1.86
	5.35	-7.40	-1.87



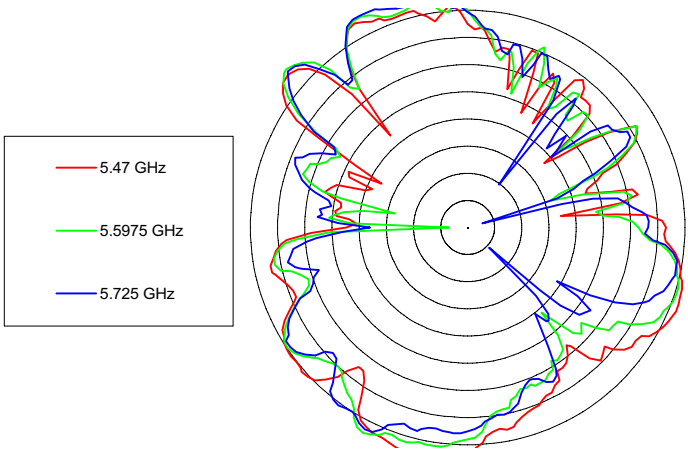
VSWR open = lid/keyboards angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle.

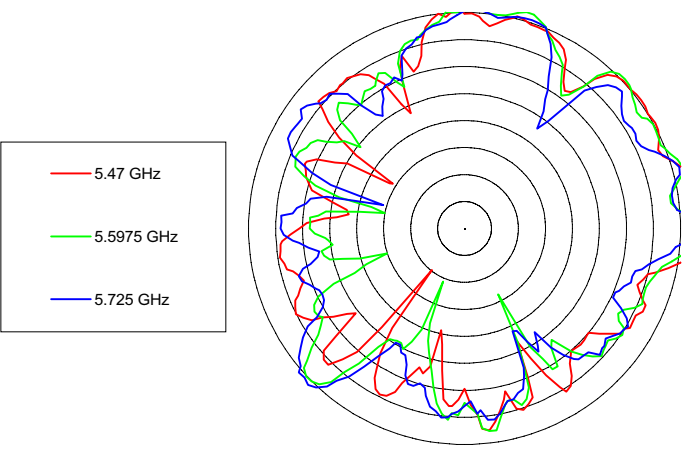
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Supplier: Supplier: Wistron NeWeb coporation
Date: Date: 2002/11/28

HyperLAN (5.470 GHz - 5.725 GHz) Antenna Radiation Patterns

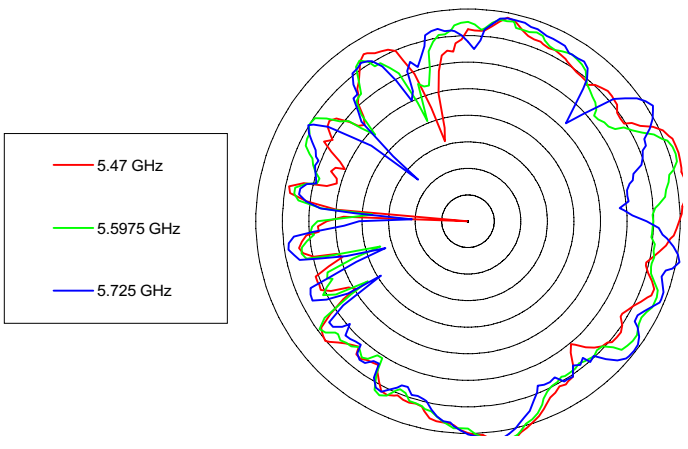
Main Horizontal



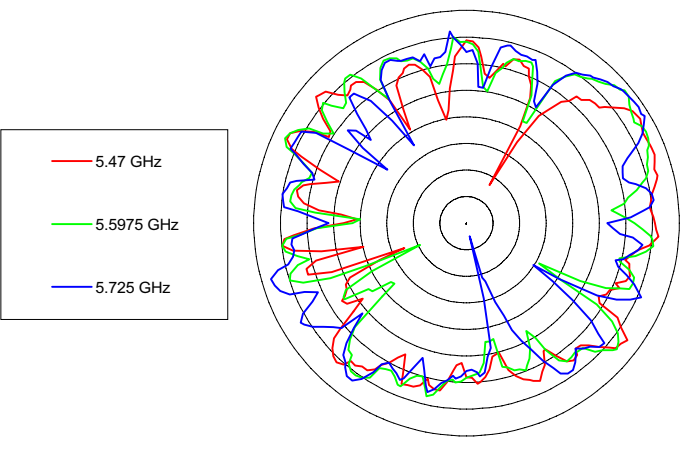
Main Vertical



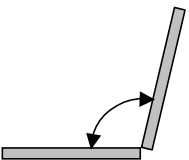
Aux Horizontal



Aux Vertical



HyperLAN (5.470 GHz - 5.725 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	5.47	-2.09	4.35
	5.5975	-2.61	4.35
	5.725	-2.97	3.84
Main Vert	5.47	-3.36	4.32
	5.5975	-3.57	3.05
	5.725	-4.14	1.34
Aux Horz	5.47	-3.72	2.03
	5.5975	-4.08	1.81
	5.725	-4.06	1.61
Aux Vert	5.47	-7.30	-1.92
	5.5975	-7.02	-1.23
	5.725	-6.88	-0.91



VSWR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle.