Wistron NeWeb Corp.

Dual band Antenna Data Sheet

Customer Name:

Date: 06/04/2015 **Doc. Version: 1**

OEM P/N	
WNC P/N	
Description	
Version	**Dual band Antenna**

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
Iris Tu	**Neil Peng**	

Wistron NeWeb Corporation
20 Park Avenue II,
Hsinchu Science Park,
Hsinchu 308, Taiwan, R.O.C.
TEL: +886-3-666-7799
FAX: +886-3-666-7321
http://www.wneweb.com

啟碁科技股份有限公司
新竹市 308 科學園區園區二路 20 號
電話：(03) 666-7799
傳真：(03) 666-7321

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1. Introduction

Antenna for Dual band system

Dual band antenna (Dipole type)

1. Cable length of Dual band antenna: 205 mm, Black (connector withΦ 1.37mm RF cable)
2. PCB size: 35*8*0.8 mm

	Dual band Antenna
Antenna Type	Dipole type
Cable	Cable color：Black 1.37 (dia) x 205 mm, RF connector
Photo	

2. Revision History

Date	Version	Change Description
06/04/15	**A01**	Release to file

3. Product Specifications

3.1 Specifications of Antenna Design

Measure environment LCD angle 110 degree

3.1.1 VSWR

WLAN Main	2400 MHz ~ 2500 MHz	5150 MHz ~ 5850 MHz
VSWR	<2	<2

3.1.2 Antenna specification

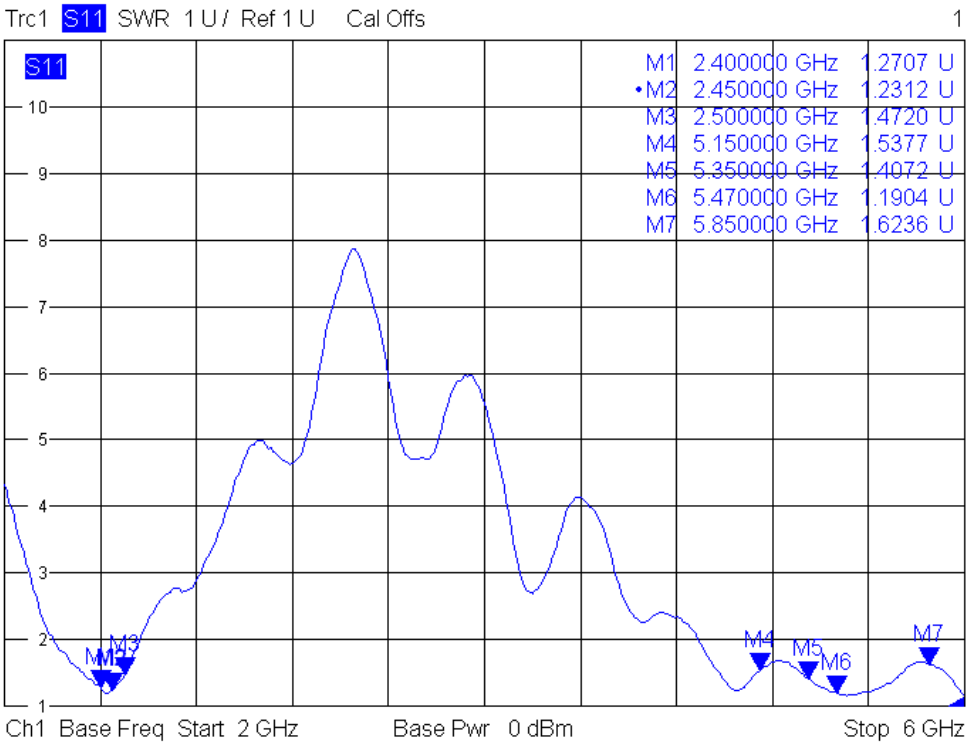
WLAN Main	2400 MHz ~ 2500 MHz	5150 MHz ~ 5850 MHz
Peak dBi	<2	<1

3.3 Antenna Material List

Dual band Antenna
1. PCB 2. Coaxial cable and RF connector 3. Adhesive Tape 4. Weight: 1.19 g

4 Antenna Performance

4.1 VSWR



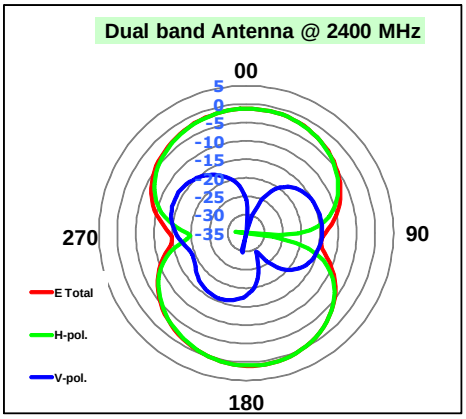
4.2 Antenna Efficiency

Dual band Antenna Efficiency		
Frequency	Efficiency	Efficiency(dB)
2400	74.23	-1.29
2450	74.71	-1.27
2500	74.00	-1.31
5150	68.99	-1.61
5250	66.59	-1.77
5350	68.16	-1.66
5470	71.39	-1.46
5600	72.17	-1.42
5725	71.18	-1.48
5750	70.31	-1.53
5850	66.58	-1.77

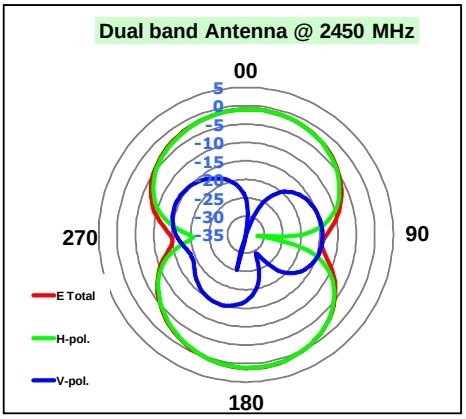
4.3 Antenna Peak Gain and Average Gain

Dual band Antenna Gain						
Frequency (MHz)	Max value			Average		
	H-pol	V-pol	Total (H-pol+V-pol)	H-pol	V-pol	Total (H-pol+V-pol)
2400	1.02	-13.55	1.06	-4.28	-17.61	-3.89
2450	1.21	-14.18	1.26	-4.07	-17.59	-3.69
2500	1.49	-13.11	1.55	-4.07	-17.90	-3.73
5150	-0.89	-7.02	-0.55	-5.07	-12.57	-4.04
5250	-0.37	-7.28	-0.32	-5.06	-13.31	-4.11
5350	-0.10	-9.93	-0.08	-5.00	-14.89	-4.32
5470	0.40	-9.49	0.50	-4.96	-15.94	-4.42
5600	0.59	-8.41	0.87	-4.94	-14.62	-4.25
5725	0.29	-7.02	0.71	-4.72	-12.65	-3.72
5750	0.87	-6.97	1.26	-4.65	-12.61	-3.70
5850	0.71	-6.34	0.74	-5.12	-11.91	-3.78

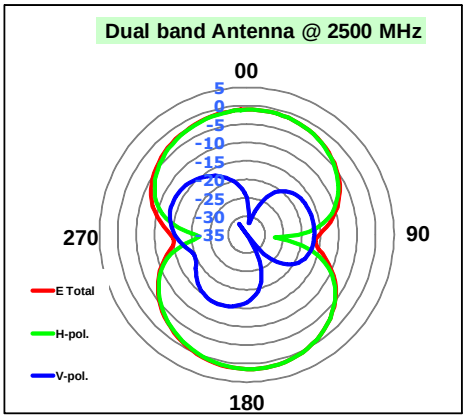
4.4 Antenna Pattern



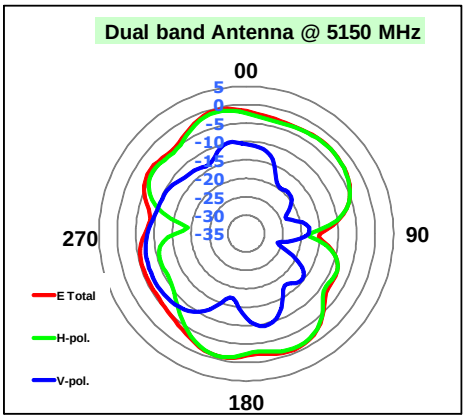
	H-pol	V pol
Peak Gain	1.02	-13.55



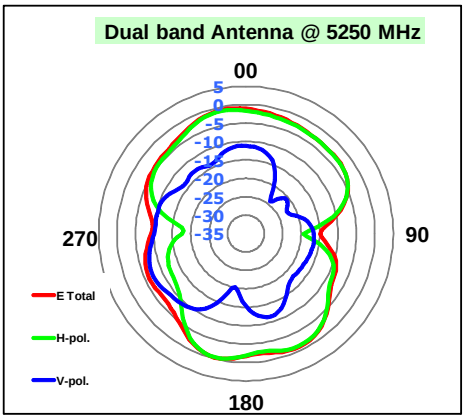
	H-pol	V pol
Peak Gain	1.21	-14.18



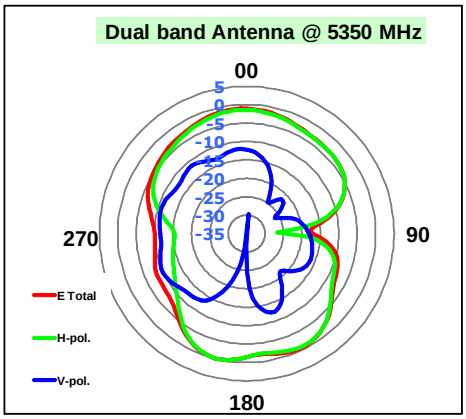
	H-pol	V pol
Peak Gain	1.49	-13.11



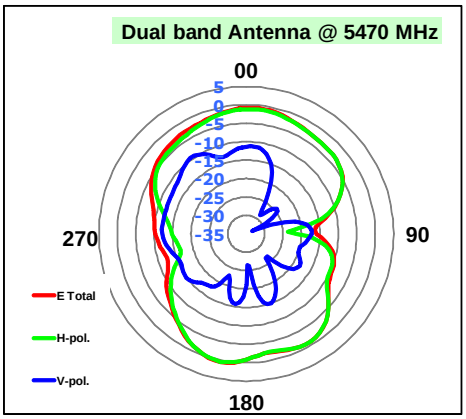
	H-pol	V pol
Peak Gain	-0.89	-7.02



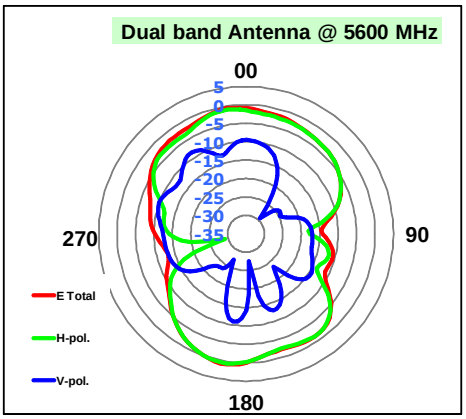
	H-pol	V pol
Peak Gain	-0.37	-7.28



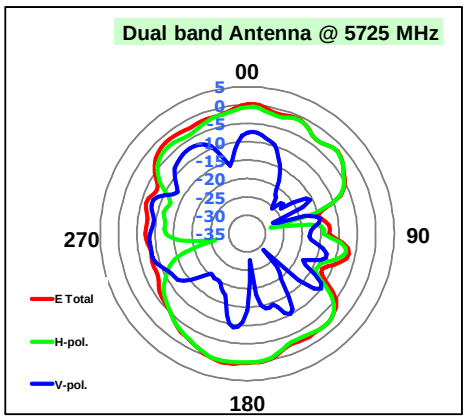
	H-pol	V pol
Peak Gain	-0.10	-9.93



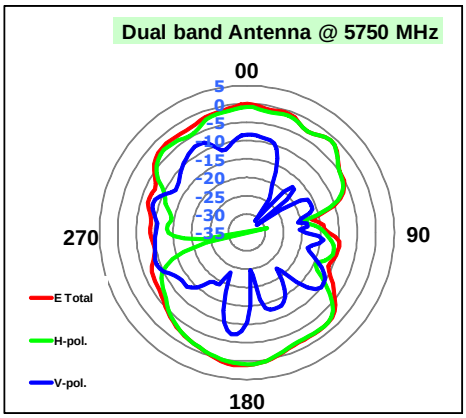
	H-pol	V pol
Peak Gain	0.40	-9.49



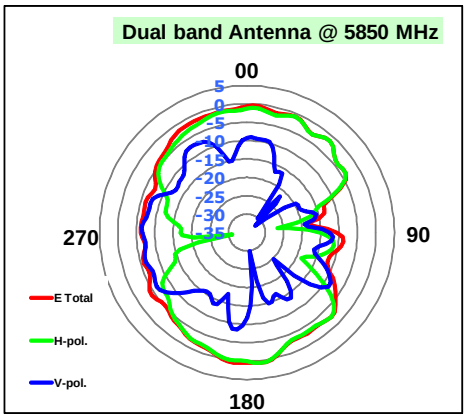
	H-pol	V pol
Peak Gain	0.59	-8.41



	H-pol	V pol
Peak Gain	0.29	-7.02



	H-pol	V pol
Peak Gain	0.87	-6.97



	H-pol	V pol
Peak Gain	0.71	-6.34