



Wistron NeWeb Corp.

APPROVAL SHEET

Customer Name: **Pegatron**

Date: **07/29/2015**

Doc. Version: **1**

OEM P/N	1415-04LP000
WNC P/N	1415-04LP000 (81.EL115.GDH)
Description	SWITCH10"VALUE/P0JBC,ANTENNA,WLANAUX,EL1-U9
Version	A01

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
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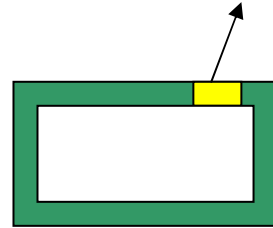
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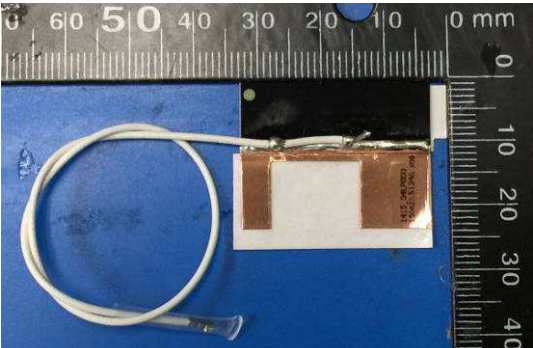
1. Introduction

Antenna for WLAN system WLAN Aux antenna (PIFA type)

WLAN Aux
Antenna (Right side)



1. Location: Left side of the LCD panel
2. Cable length of WLAN Aux antenna: 190 mm, White (connector with Φ 1.13mm RF cable)

	WLAN Aux Antenna
Position	Right side , side of LCD
Antenna Type	PIFA type
Cable	Cable color : White 1.13 (dia) x 190 mm, RF connector
Photo	

2. Revision History

Date	Version	Change Description
07/24/2015	A01	New Release

3. Product Specifications

3.1 Specifications of Antenna Design

Measure environment LCD angle 110 degree

3.1.1 VSWR

WLAN Aux	2400 MHz ~ 2500 MHz	5150 MHz ~ 5850 MHz
VSWR	<2.5	<2.5

3.1.2 Antenna specification

WLAN Aux	2400 MHz ~ 2500 MHz	5150 MHz ~ 5850 MHz
Peak dBi	<3	<6

3.2 Mechanical Specifications

See the attached drawing.

1

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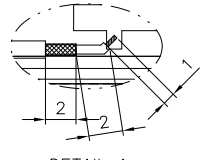
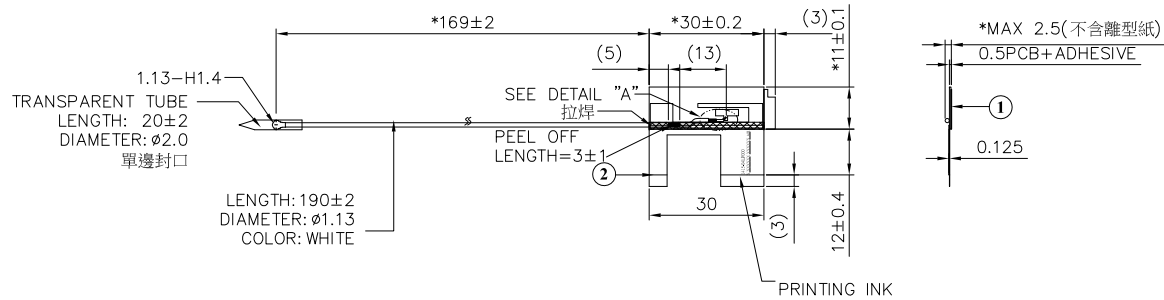
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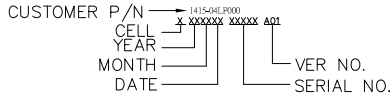
WNC PROPRIETARY

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EL115.0DH	J	1415-04LP000	A01	NATHAN CHENG	08/06/15

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	J	NEW RELEASE	08/06/15	EDWARD SU



DETAIL A
 SCALE : 4/1



DETAIL OF INK
 SCALE: 1/1

NOTES: PCB ANTENNA SHOULD BE USED HEREUNDER.

⊗ 48.EL13Z.SGA
 EL1-U9, PCB, FR4 0.4MM OP HF, WLAN AUX, SAMPLE

NOTES : "*"ARE THE CRITICAL DIMENSIONS
 ALL SUB-MATERIAL CAN NOT BE ATTACHED OVER THE EDGE OF ANTENNA BODY.

2	5PEL1U009C2-111	PLATE, COPPER FOIL, WLAN-2, NYC, EL1-U9	EA	1
1	5TEJPA004T3-111	TAPE, ADHESIVE, WLAN_1, NYC, EJP-A4	EA	1
ITEM	PART NO.	DESCRIPTION	UNIT	QTY

ONLY ME PARTS REFERENCE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE:				威盛科技股份有限公司 <small>20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan, R.O.C. Tel: 886-3-6667799 Fax: 886-3-6667321</small>	
INTEGRAL DIMENSIONS ±0.2		ANGULAR DIMENSIONS ±1°		DWG TITLE	
1 PLACE DECIMAL ±0.1		HOLES UNDER Ø5.00 ±0.05		SWITCH 10" VALUE / POJBC, ANTENNA, WLAN AUX, EL1-U9	
2 PLACE DECIMALS ±0.05		MATERIAL: NA		SIZE DWG NO.	
FINISH: NA		THIRD ANGLE PROJECTION		A2 57.EL115.0DH	
81.EL115.GDH	EL1-U9	DRAWN	TERESA SF LIU	08/06/15	REV J
NEXT ASSY	USED ON	ENGR	NATHAN CHENG	08/06/15	
APPLICATION		APVD	EDWARD SU	08/06/15	
SCALE 1/1			SHEET 1 OF 1		

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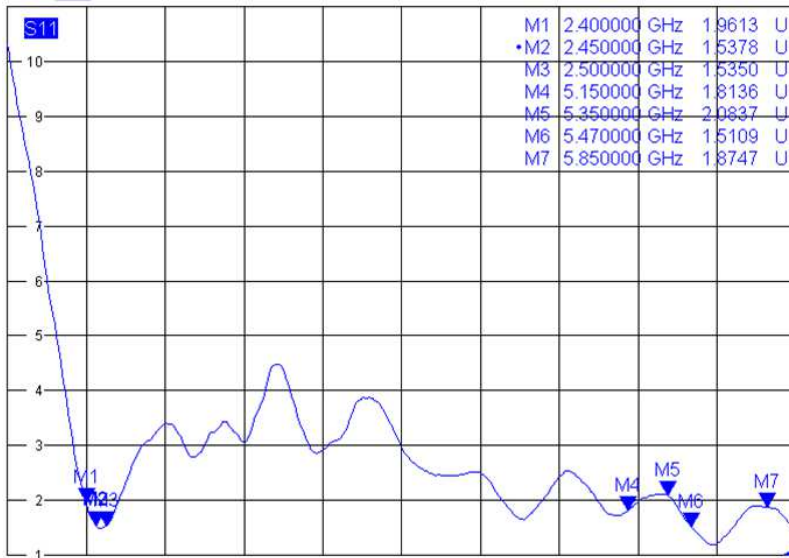
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3.3 Antenna Material List

WLAN Aux Antenna	
1.	Coaxial cable and RF connector
2.	Transparent tube
3.	Tape Adhesive
4.	Plate Copper
5.	Weight:1.3 g

4 Antenna Performance

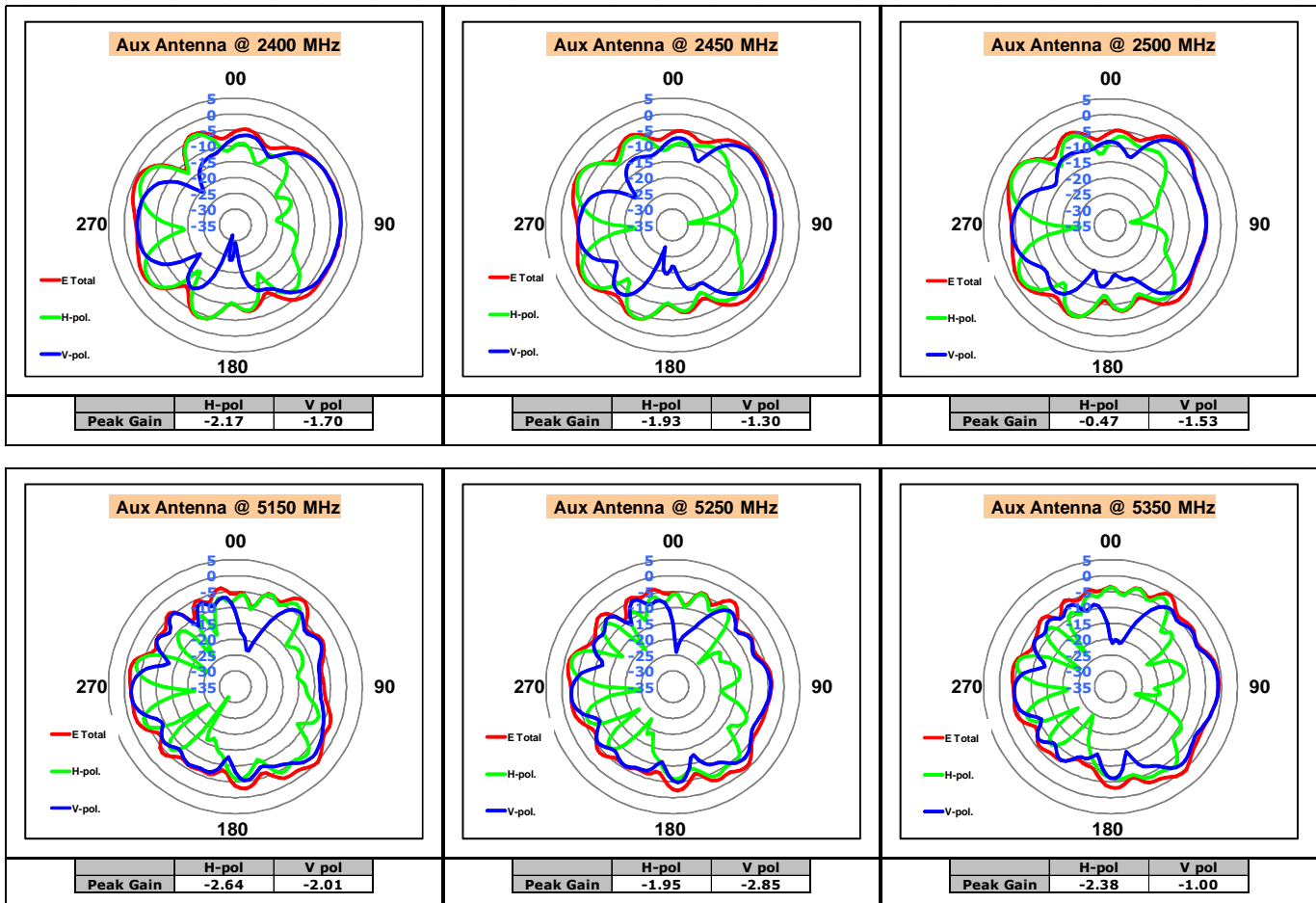
4.1 VSWR



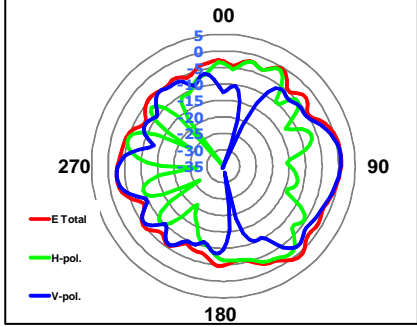
4.2 Antenna Peak Gain

Frequency (MHz)	Aux antenna	
	Horizontal (dBi)	Vertical (dBi)
2400	-2.17	-1.70
2450	-1.93	-1.30
2500	-0.47	-1.53
5150	-2.64	-2.01
5250	-1.95	-2.85
5350	-2.38	-1.00
5470	-1.14	0.77
5600	-0.99	0.30
5725	-1.24	-0.34
5785	-1.02	-0.63
5850	-1.76	0.04

4.3 Antenna Pattern

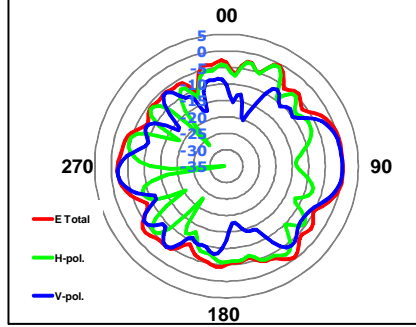


Aux Antenna @ 5470 MHz



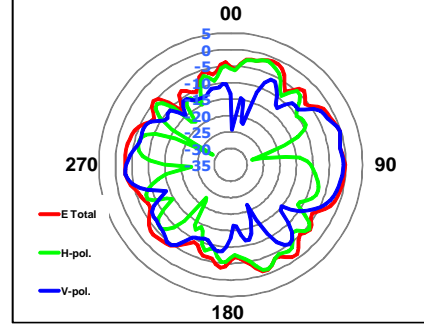
	H-pol	V-pol
Peak Gain	-1.14	0.77

Aux Antenna @ 5600 MHz



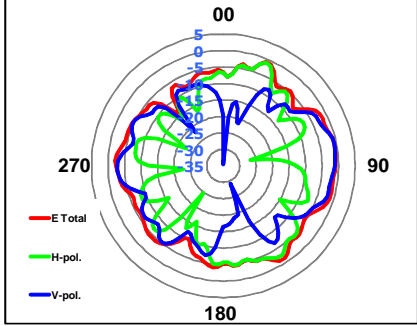
	H-pol	V-pol
Peak Gain	-0.99	0.30

Aux Antenna @ 5725 MHz



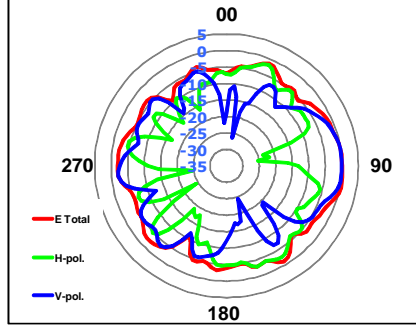
	H-pol	V-pol
Peak Gain	-1.24	-0.34

Aux Antenna @ 5785 MHz



	H-pol	V-pol
Peak Gain	-1.02	-0.63

Aux Antenna @ 5850 MHz



	H-pol	V-pol
Peak Gain	-1.76	0.04