



Wistron NeWeb Corp.

APPROVAL SHEET

Customer Name: **Pegatron**

Date: **07/29/2015**

Doc. Version: **1**

OEM P/N	1415-04LN000
WNC P/N	1415-04LN000 (81.EL115.GDL)
Description	SWITCH10"VALUE/P0JBC,ANTENNA,WLANMAIN,EL1-U9
Version	A01

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
Nathan Cheng	Jason Hsiao	

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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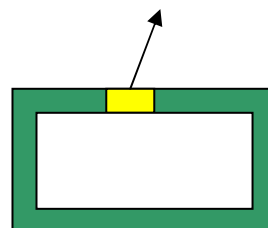
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1. Introduction

Antenna for WLAN system

WLAN Main antenna (PIFA type)

WLAN Main
Antenna (Left side)



1. Location: Right side of the LCD panel
2. Cable length of WLAN Main antenna: 50 mm, Black (connector with $\Phi 1.13$ mm RF cable)

	WLAN Main Antenna
Position	Left side , side of LCD
Antenna Type	PIFA type
Cable	Cable color : Black 1.13 (dia) x 50 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 Main	2400 MHz ~ 2500 MHz	5150 MHz ~ 5850 MHz
VSWR	<2.5	<2.5

3.1.2 Antenna specification

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

3.2 Mechanical Specifications

See the attached drawing.

1

2

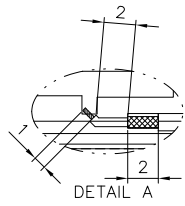
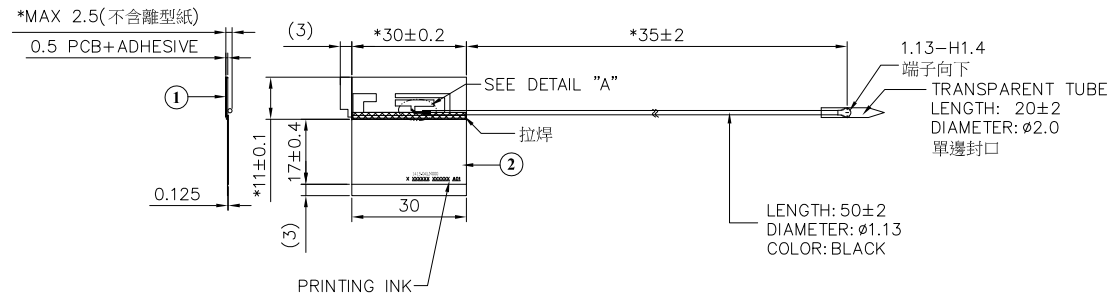
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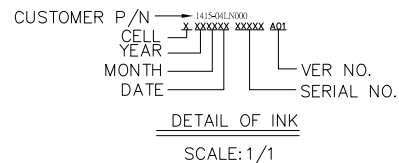
WNC PROPRIETARY

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EL115.0DL	H	1415-04LN000	A01	NATHAN CHENG	08/06/15

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



SCALE : 4/1



NOTES: PCB ANTENNA SHOULD BE USED HEREUNDER.

⊗ 48.EL13Y.SGA
EL1-U9, PCB, FR4 0.4MM OP HF, WLAN MAIN, SAMPLE

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

2	5PEL1U009C1-111	PLATE, COPPER FOIL, WLAN-1, 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: INTEGRAL DIMENSIONS ± 0.2 1 PLACE DECIMAL ± 0.1 2 PLACE DECIMALS ± 0.05				ANGULAR DIMENSIONS ± 1° HOLES UNDER Ø5.00 ± 0.05		WNC 啟碁科技股份有限公司 20 Park Avenue II, Hsinchu Science Park, Hsinchu 306, Taiwan, R.O.C. Tel: 886-3-6667799 Fax: 886-3-6667321	
MATERIAL: NA				FINISH: NA		DWG TITLE SWITCH 10" VALUE / POJBC, ANTENNA, WLAN MAIN, EL1-U9	
81.EL115.GDL	EL1-U9	THIRD ANGLE PROJECTION	DRAWN	TERESA SF LIU	08/06/15	SIZE	DWG NO.
NEXT ASSY	USED ON	ENGR	NATHAN CHENG	08/06/15		A2	57.EL115.0DL
APPLICATION		APVD	EDWARD SU	08/06/15	SCALE	1/1	SHEET 1 OF 1

3.3 Antenna Material List

WLAN Main Antenna	
1.	Coaxial cable and RF connector
2.	Transparent tube
3.	Tape Adhesive
4.	Plate Copper
5.	Weight: 1.0g

4 Antenna Performance

4.1 VSWR



4.2 Antenna Peak Gain

Main antenna		
Frequency (MHz)	Horizontal (dBi)	Vertical (dBi)
2400	-1.46	-0.43
2450	-0.96	0.09
2500	-0.67	0.72
5150	1.19	1.75
5250	1.16	1.22
5350	0.76	1.68
5470	-0.33	1.55
5600	-1.04	0.78
5725	-1.31	0.41
5785	-2.08	0.06
5850	-2.27	0.01

4.3 Antenna Pattern

