

APPROVAL SHEET

Customer Name: **TPV**

Date: **2018/05/03**

Doc. Version: **1**

OEM P/N	317GAAWA631WNC
WNC P/N	81.EK615.G65
Description	ALBERTVILLE, 24TV WIFI AUX ANTENNA, EK6-TP1
Version	1A

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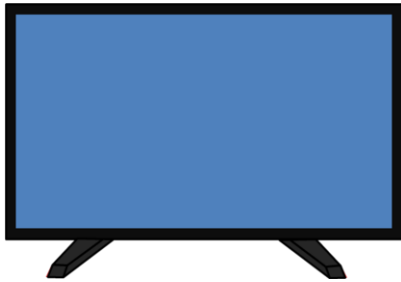
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1. Introduction

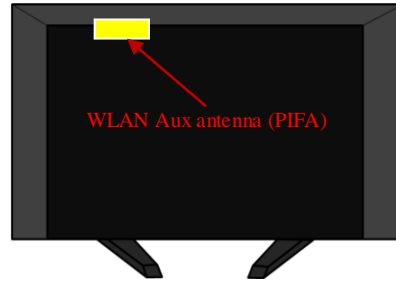
Antenna for 802.11a+n+g system

WLAN AUX antenna (PIFA)


1. Location: Top Left of the TV Back Panel
2. Cable length : 114 mm, Black(connector with Φ 1.37mm RF cable)



Front View



Back View

	WLAN AUX Antenna
Position	Top Left of the TV Back Panel
Antenna Type	PIFA
Cable	Cable color : Black, 1.37 (dia) x 114mm , RF connector
Weight	2.415g
Photos	

2. Revision History

Date	Version	Revision History
05/03/18	1	New Release

3. Product Specifications

3.1 Specifications of Antenna Design

3.1.1 VSWR

WLAN	IEEE 802.11 g/n			IEEE 802.11 a/n		
	2400MHz	2450MHz	2483MHz	5150MHz	5470MHz	5850MHz
VSWR	<2			<2		

3.1.2 Efficiency

WLAN	IEEE 802.11 g/n			IEEE 802.11 a/n		
	2400MHz	2450MHz	2483MHz	5150MHz	5470MHz	5850MHz
Efficiency	>40%			>50%		

3.2 Mechanical Specifications

See the attached drawing.

1

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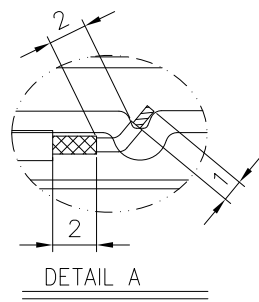
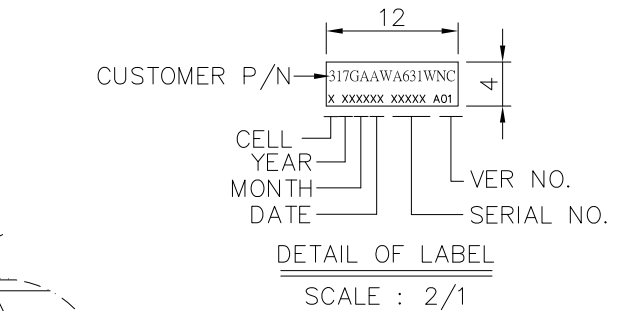
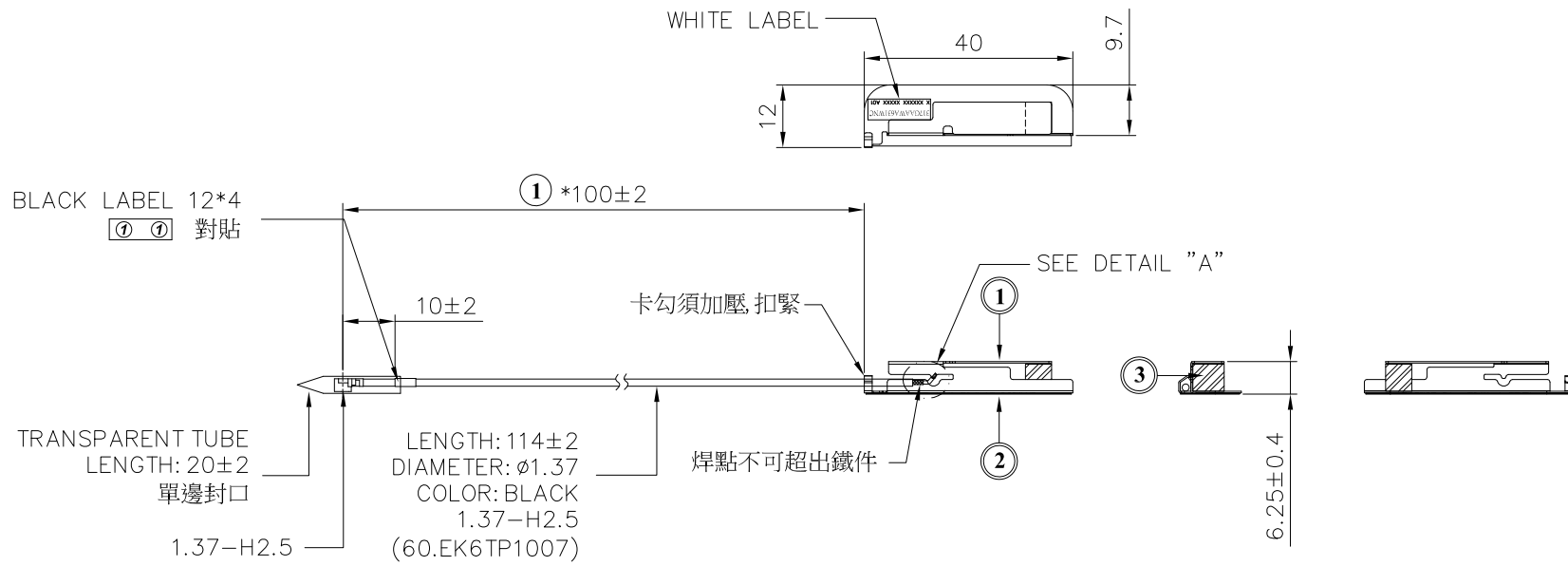
WNC CONFIDENTIAL

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EK615.065	1	317GAAWA631WNC	A01	YANG SHUN LIU	06/20/18

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	1	RELEASE TO FILE	06/20/18	VINCENT CC LIN

A

A



"*"ARE THE CRITICAL DIMENSIONS

3	3T.EK6C3.00A	BUFFER, 32" _1, HH48C, EK6-C3	EA	1
2	3T.EK6TP.003	PLATE, AL FOIL, BT-43, EK6-TP1	EA	1
1	3S.EK6TP.00D	ANTENNA, SUS-1, BT-24, EK6-TP1	EA	1
ITEM	PART NO.	DESCRIPTION	UNIT	QTY

ONLY ME PARTS REFERENCE

81.EK615.G65	EK6-TP1
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE:			
INTEGER DIMENSIONS	±0.2	ANGULAR DIMENSIONS	±1°
1 PLACE DECIMAL	±0.1	HOLES UNDER Ø5.00	±0.05
2 PLACE DECIMALS	±0.05		
MATERIAL: NA			
FINISH: NA			
THIRD ANGLE PROJECTION	DRAWN	STACY CHANG	06/20/18
	ENGR	YANG SHUN LIU	06/20/18
	APVD	VINCENT CC LIN	06/20/18

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DWG TITLE
 ALBERTVILLE, 24TV WIFI AUX ANTENNA, EK6-TP1

SIZE DWG NO. 57.EK615.065 REV 1
 SCALE 1/1 SHEET 1 OF 1

1

2

B

B

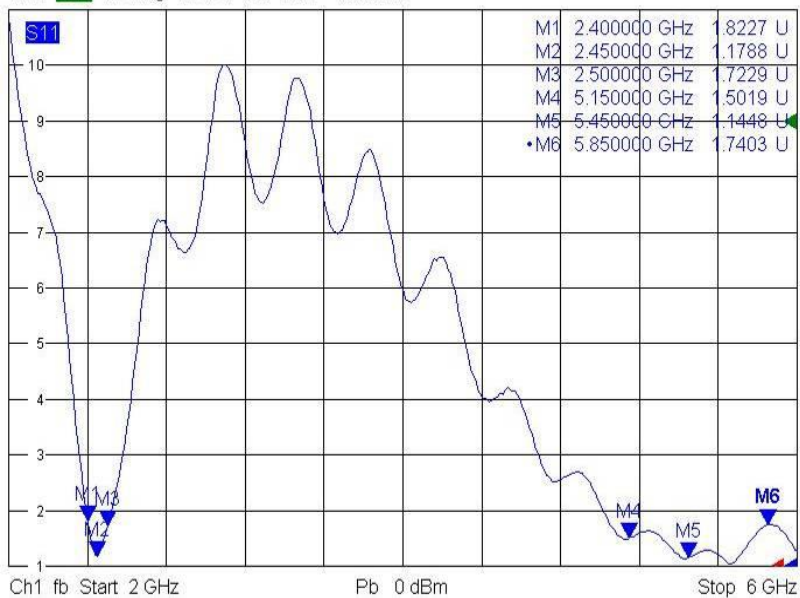
3.3 Antenna Material List

Items	Description
Antenna	3S.EK6TP.006WS
Cable	Φ1.37 Cable(Black)
Connector	IPEX
BUFFER	HH48C
Adhesive	TT219

4. Antenna Performance

4.1 VSWR

Trc1 S11 SWR 1 U/ Ref 1 U Cal
 Trc2 S22 SWR 1 U/ Ref 1 U Invisible
 Trc3 S21 dB Mag 10 dB / Ref 0 dB Invisible



4.2 Efficiency data

Aux

Freq(GHz)	Efficiency(%)	Efficiency(dB)
2400	43.66	-3.60
2450	50.99	-2.92
2500	48.68	-3.13
5150	65.33	-1.85
5250	69.88	-1.56
5350	72.13	-1.42
5470	73.42	-1.34
5600	71.07	-1.48
5725	71.00	-1.49
5785	72.72	-1.38
5850	68.50	-1.64

4.3 Peak Gain

Frequency (MHz)	Gain (dBi)
2400	-0.41
2450	0.64
2500	0.14
5150	4.25
5250	4.66
5350	4.53
5470	5.06
5600	4.58
5725	4.02
5785	4.16
5850	4.46

