

APPROVAL SHEET

Customer Name: **TPV**

Date: **2018/04/27**

Doc. Version: **1**

OEM P/N	317GAAWA625WNC
WNC P/N	81.EK615.G71
Description	ALBERTVILLE, 39TV WIFI AUX ANTENNA, EK6-TP1
Version	1A

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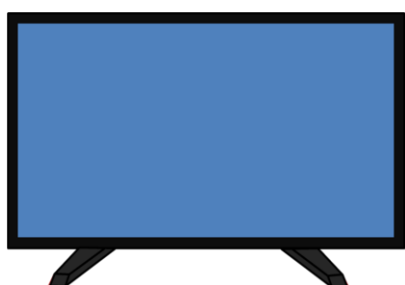
- 1. Introduction**
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1. Introduction

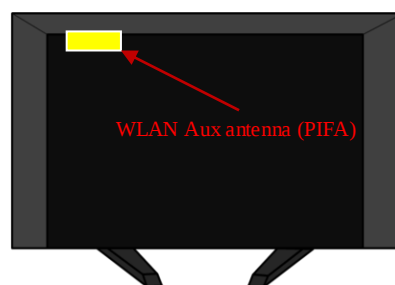
Antenna for 802.11a+n+g system

WLAN AUX antenna (PIFA)

1. Location: Top Left of the TV Back Panel
2. Cable length : 164 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 164mm , RF connector
Weight	2.60 g
Photos	

2. Revision History

Date	Version	Revision History
04/27/18	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.

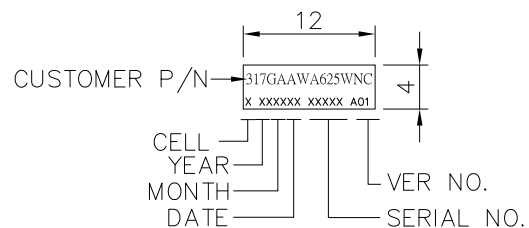
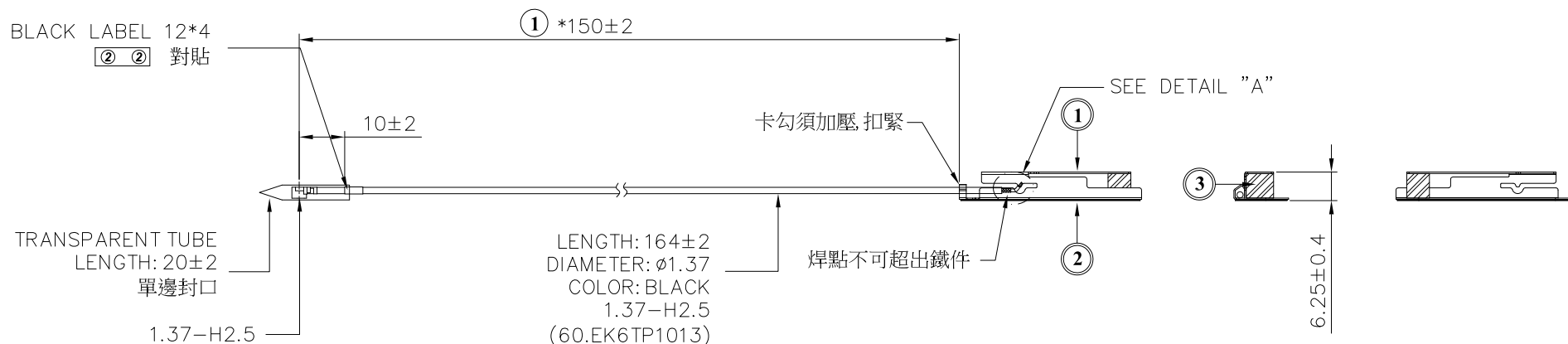
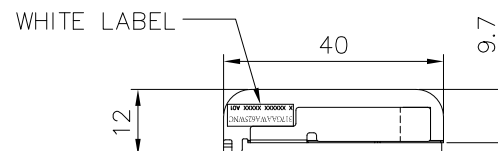
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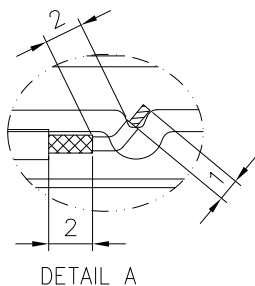
WNC CONFIDENTIAL

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EK615.071	1	317GAAWA625WNC	A01	YANG SHUN LIU	06/20/18

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



DETAIL OF LABEL
SCALE : 2/1



DETAIL A
SCALE: 4/1

**ARE THE CRITICAL DIMENSIONS

3	3T.EK6TP1.005	BUFFER, BT-39, EVA60_5MM, EK6-TP1	EA	1
2	3T.EK6TP.003	PLATE, AL FOIL, BT-43, EK6-TP1	EA	1
1	3S.EK6TP.00F	ANTENNA, SUS-1, BT-39, EK6-TP1	EA	1
ITEM	PART NO.	DESCRIPTION	UNIT	QTY

ONLY ME PARTS REFERENCE

		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE: INTEGER DIMENSIONS ±0.2 1 PLACE DECIMAL ±0.1 2 PLACE DECIMALS ±0.05				ANGULAR DIMENSIONS ±1° HOLES UNDER Ø5.00 ±0.05	
		MATERIAL: NA				DWG TITLE	
		FINISH: NA				ALBERTVILLE, 39TV WIFI AUX ANTENNA, EK6-TP1	
		THIRD ANGLE PROJECTION	DRAWN	STACY CHANG	06/20/18	SIZE	DWG NO.
			ENGR	YANG SHUN LIU	06/20/18	A3	57.EK615.071
			APVD	VINCENT CC LIN	06/20/18	SCALE	1/1
		APPLICATION				SHEET	1 OF 1

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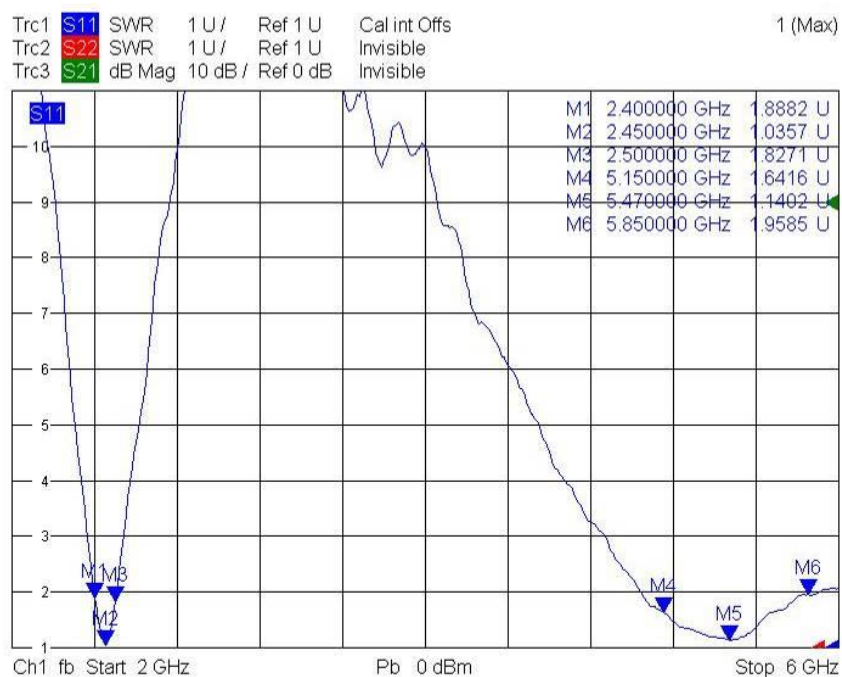
3.3 Antenna Material List

Items	Description
Antenna	3S.EK6TP.008WS
Cable	Φ1.37 Cable(Black)
Connector	IPEX
Adhesive	TT219
BUFFER	EVA60

4. Antenna Performance

4.1 VSWR

Aux



4.2 Efficiency data

Aux

Freq(GHz)	Efficiency(%)	Efficiency(dB)
2400	49.11	-3.09
2450	58.2	-2.35
2500	50.41	-2.97
5150	66.51	-1.77
5250	69.85	-1.56
5350	73.89	-1.31
5470	72.2	-1.41
5600	66.61	-1.76
5725	67.7	-1.69
5785	66.21	-1.79
5850	61.87	-2.09

4.3 Peak Gain

Frequency (MHz)	Gain (dBi)
2400	0.36
2450	0.68
2500	-0.34
5150	1.94
5250	2.04
5350	2.47
5470	2.36
5600	2.02
5725	2.42
5785	2.08
5850	2.09

4.4 Antenna Pattern

Aux

