

APPROVAL SHEET

Customer Name: **TPV**

Date: **2018/04/27**

Doc. Version: **1**

OEM P/N	317GAAWA630WNC
WNC P/N	81.EK615.G66
Description	ALBERTVILLE, 24TV WIFI MAIN ANTENNA, EK6-TP1
Version	1A

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
Yang Shun Liu	Feng Hsieh	

Wistron NeWeb Corporation
No. 20 , Science Road 2,
Hsinchu Science Park
Hsinchu 300, Taiwan, R.O.C.
TEL: +886-3-666-7799
FAX: +886-3-666-7322
<http://www.wneweb.com>

啟碁科技股份有限公司
新竹市 300 科學園區園區二路 20 號
電話：(03) 666-7799
傳真：(03) 666-7322

Index

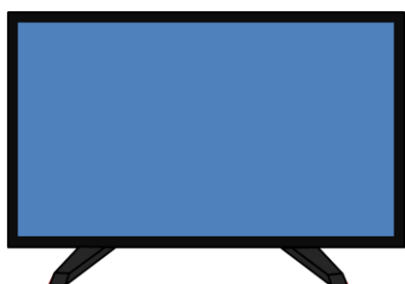
- 1. Introduction**
- 2. Revision History**
- 3. Product Specifications**
- 4. Antenna Performance**

1. Introduction

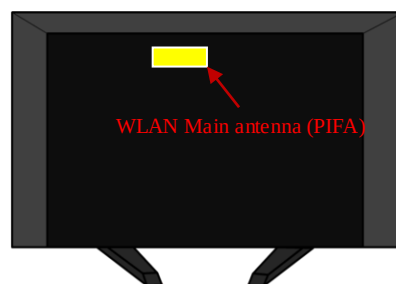
Antenna for 802.11a+n+g system

WLAN MAIN antenna (PIFA)

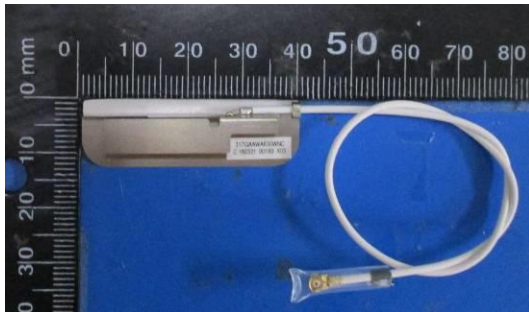
1. Location: Top Middle of the TV Back Panel
2. Cable length : 209 mm, White (connector with Φ 1.37mm RF cable)



Front View



Back View

	WLAN MAIN Antenna
Position	Top Middle of the TV Back Panel
Antenna Type	PIFA
Cable	Cable color : White, 1.37 (dia) x 209mm , RF connector
Weight	2.79 g
Photos	

2. Revision History

Date	Version	Revision History
04/25/18	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.

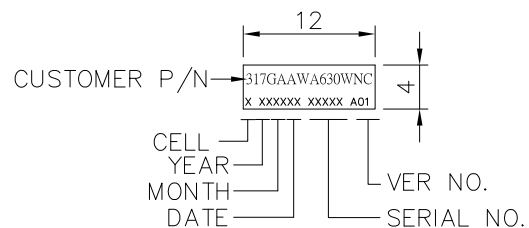
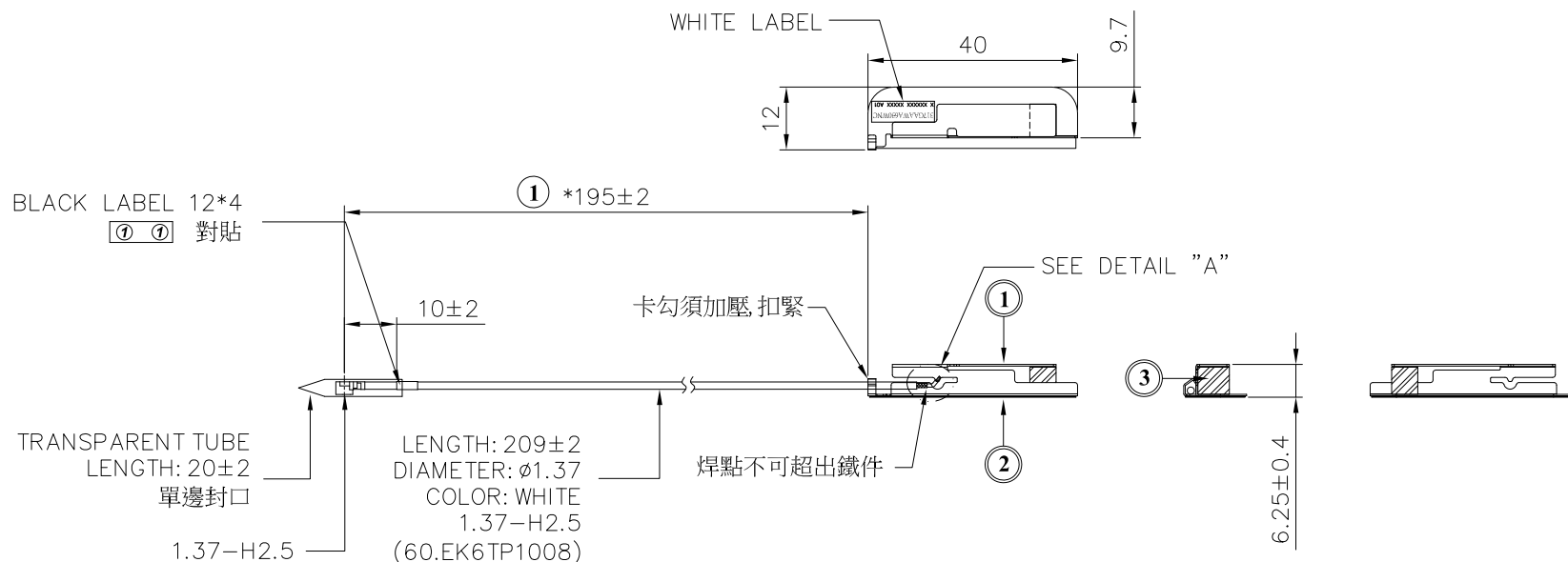
1

2

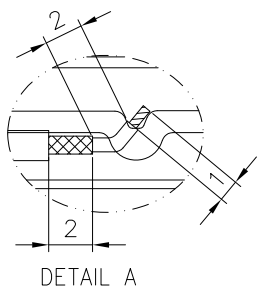
WNC CONFIDENTIAL

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EK615.066	1	317GAAWA630WNC	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.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

		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		WNC Wistron NeWeb Corp. 啟碁科技股份有限公司 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan, R.O.C. Tel: 886-3-6667799 Fax: 886-3-5788726		
		MATERIAL: NA						DWG TITLE		
		FINISH: NA						ALBERTVILLE, 24TV WIFI MAIN ANTENNA, EK6-TP1		
81.EK615.G66	EK6-TP1	THIRD ANGLE PROJECTION 	DRAWN	STACY CHANG	06/20/18	SIZE	DWG NO.		REV	
NEXT ASSY	USED ON		ENGR	YANG SHUN LIU	06/20/18	A3	57.EK615.066		1	
APPLICATION			APVD	VINCENT CC LIN	06/20/18	SCALE	1/1		SHEET 1 OF 1	

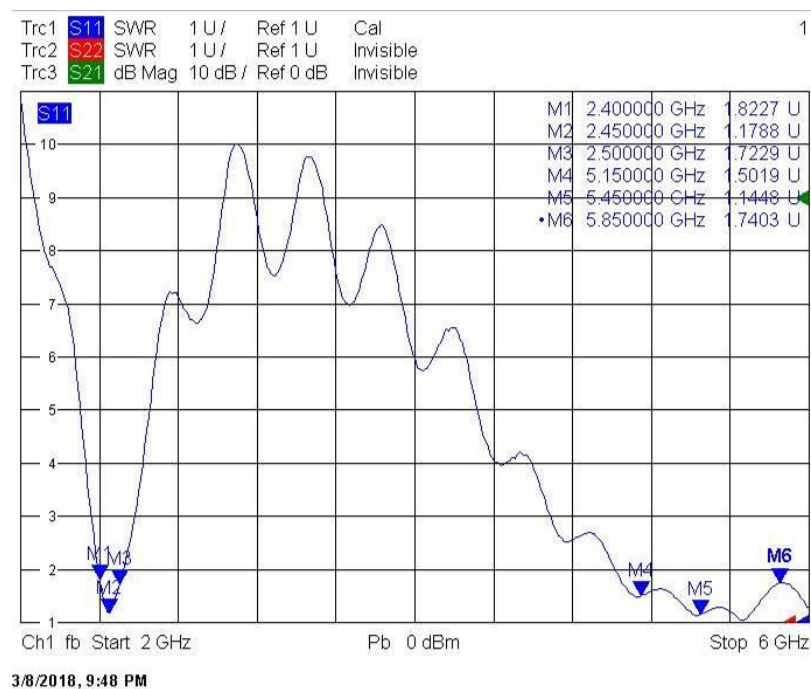
3.3 Antenna Material List

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

4. Antenna Performance

4.1 VSWR

Main



4.2 Efficiency data

Main

Freq(GHz)	Efficiency(%)	Efficiency(dB)
2400	45.58	-3.41
2450	52.76	-2.78
2500	49.2	-3.08
5150	50.04	-3.01
5250	50.85	-2.94
5350	56.9	-2.45
5470	59.42	-2.26
5600	56.71	-2.46
5725	61.05	-2.14
5785	61.18	-2.13
5850	61.18	-2.13

4.3 Peak Gain

Frequency (MHz)	Gain (dBi)
2400	1.94
2450	2.02
2500	1.22
5150	4.34
5250	4.25
5350	4.56
5470	4.58
5600	4.50
5725	4.24
5785	5.13
5850	5.20

4.4 Antenna Pattern

Main

