

APPROVAL SHEET

Customer Name: **TPV**

Date: **2018/04/27**

Doc. Version: **1**

OEM P/N	317GAAWA627WNC
WNC P/N	81.EK615.G69
Description	ALBERTVILLE, 32TV 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

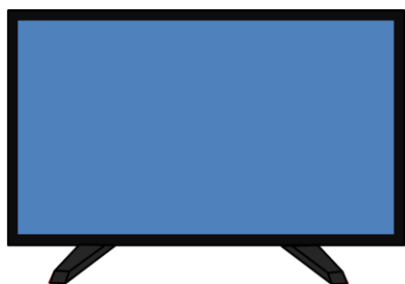
- 1. Introduction**
- 2. Revision History**
- 3. Product Specifications**
- 4. Antenna Performance**

1. Introduction

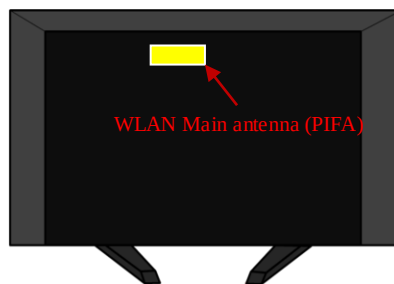
Antenna for 802.11a+n+g system

WLAN MAIN antenna (PIFA)

1. Location: Top Middle of the TV Back Panel
2. Cable length : 160 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 160mm , RF connector
Weight	2.45 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%		

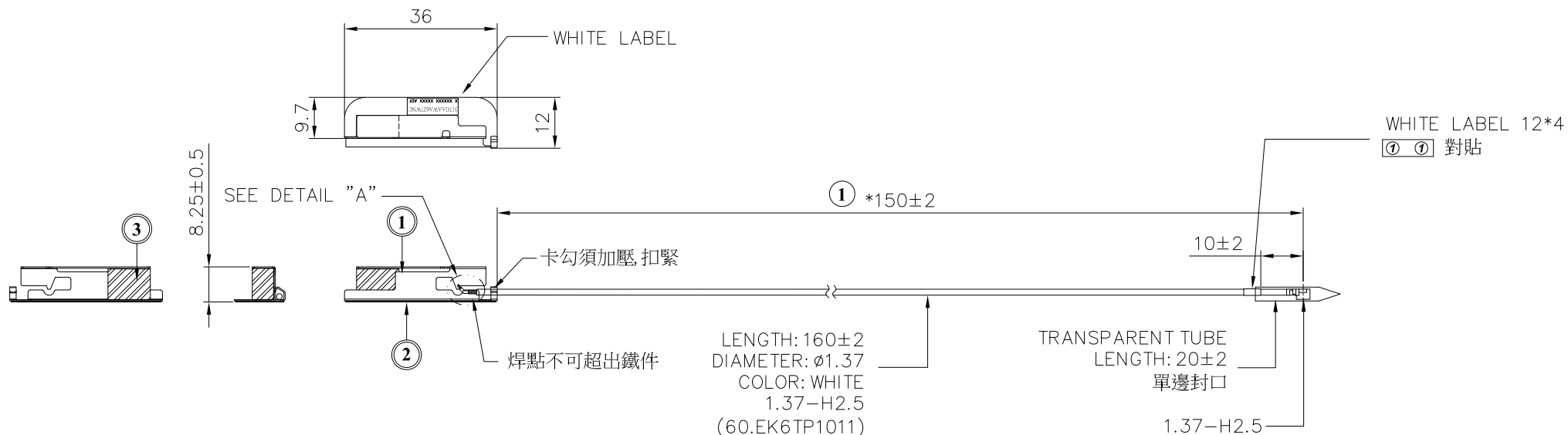
3.2 Mechanical Specifications

See the attached drawing.

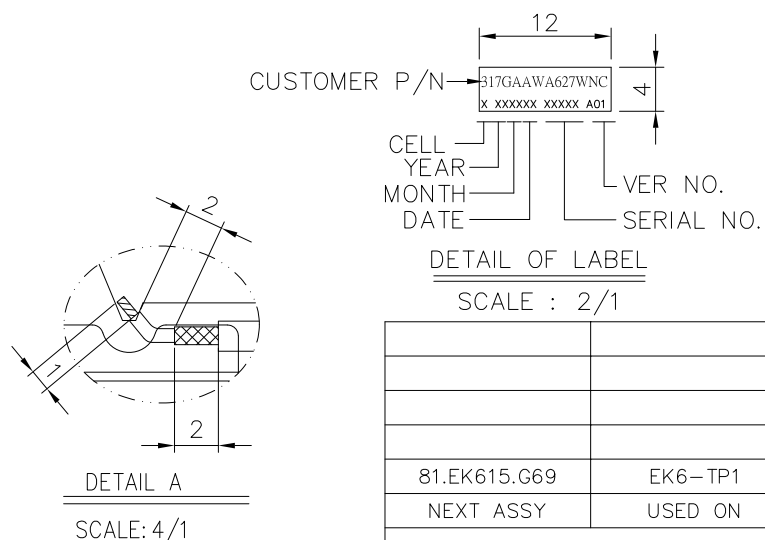
2

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EK615.069	1	317GAAWA627WNC	A01	YANG SHUN LIU	06/20/18

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



"*" ARE THE CRITICAL DIMENSIONS



3	3T.EK6TP.002	BUFFER, BT-50, EVA60, EK6-TP1	EA	1
2	3T.EK6TP.004	PLATE, AL FOIL, BT-50, EK6-TP1	EA	1
1	3S.EK6TP.00E	ANTENNA, SUS-1, BT-32, 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				 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 FINISH: NA				DWG TITLE ALBERTVILLE, 32TV WIFI MAIN ANTENNA, EK6-TP1			
81.EK615.G69	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.EK615.069		1
APPLICATION			APVD	VINCENT CC LIN	06/20/18	SCALE 1/1		SHEET 1 OF 1	

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

DWG TITLE	ALBANY, 32TV WIFI MAIN ANTENNA, EK6-TP1
-----------	---

8	SIZE	DWG NO.	REV
8	A3	57.EK615.069	1
8	SCALE	1/1	SHEET 1 OF 1

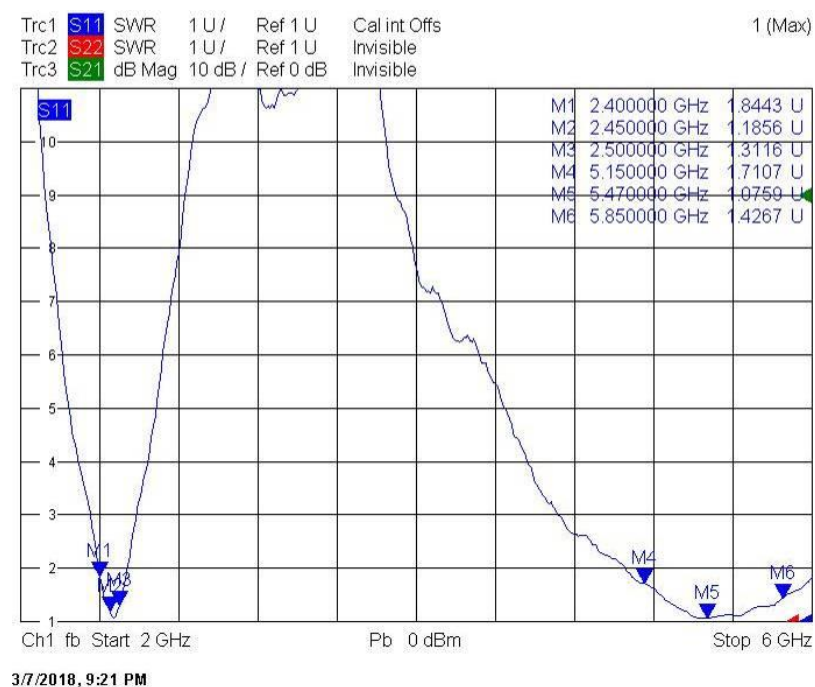
3.3 Antenna Material List

Items	Description
Antenna	3S.EK6TP.007WS
Cable	Φ1.37 Cable(White)
Connector	IPEX
Adhesive	TT219
BUFFER	EVA60

4. Antenna Performance

4.1 VSWR

Main



4.2 Efficiency data

Main

Freq(GHz)	Efficiency(%)	Efficiency(dB)
2400	56.59	-2.47
2450	62.4	-2.05
2500	56.82	-2.45
5150	68.32	-1.65
5250	71.75	-1.44
5350	73.31	-1.35
5470	71.15	-1.48
5600	69.88	-1.56
5725	73.32	-1.35
5785	67.93	-1.68
5850	68.86	-1.62

4.3 Peak Gain

Frequency (MHz)	Gain (dBi)
2400	2.91
2450	2.70
2500	3.71
5150	4.82
5250	5.21
5350	5.13
5470	5.07
5600	5.13
5725	4.53
5785	3.72
5850	3.50

4.4 Antenna Pattern

Main

