

APPROVAL SHEET

Customer Name: **TPV**

Date: **2018/04/27**

Doc. Version: **1**

OEM P/N	317GAAWA624WNC
WNC P/N	81.EK615.G72
Description	ALBERTVILLE, 39TV 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	

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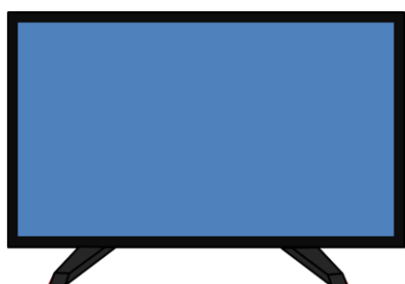
- 1. Introduction**
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- 4. Antenna Performance**

1. Introduction

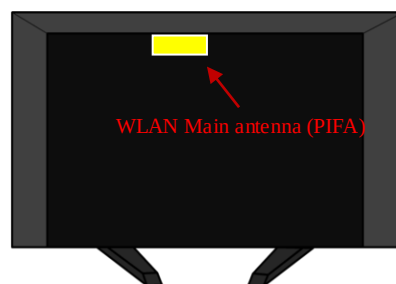
Antenna for 802.11a+n+g system

WLAN MAIN antenna (PIFA)

1. Location: Top Middle of the TV Back Panel
2. Cable length : 164 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 164mm , RF connector
Weight	2.605 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.

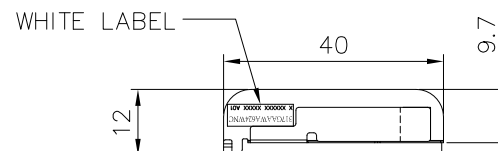
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WNC CONFIDENTIAL

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EK615.072	1	317GAAWA624WNC	A01	YANG SHUN LIU	06/20/18

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



BLACK LABEL 12*4

② ② 對貼

① *150±2

10±2

卡勾須加壓,扣緊

SEE DETAIL "A"

TRANSPARENT TUBE
LENGTH: 20±2

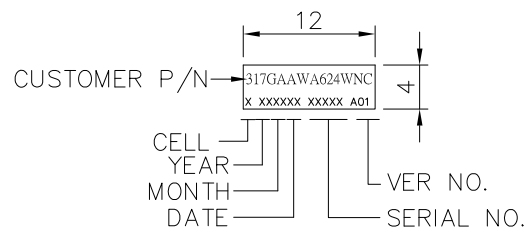
單邊封口

1.37-H2.5

LENGTH: 164±2
DIAMETER: ϕ 1.37
COLOR: WHITE
1.37-H2.5
(60.EK6TP1014)

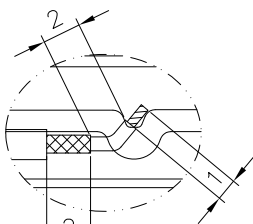
焊點不可超出鐵件

6.25±0.4



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 $\pm 1^\circ$ HOLES UNDER $\phi 5.00$ ± 0.05				WNC 啟碁科技股份有限公司 Wistron NeWeb Corp. 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, 39TV WIFI MAIN ANTENNA, EK6-TP1	
		THIRD ANGLE PROJECTION	DRAWN	STACY CHANG	06/20/18	SIZE	DWG NO.
			ENGR	YANG SHUN LIU	06/20/18	A3	57.EK615.072
			APVD	VINCENT CC LIN	06/20/18	SCALE	1/1
		APPLICATION				SHEET	1 OF 1

1

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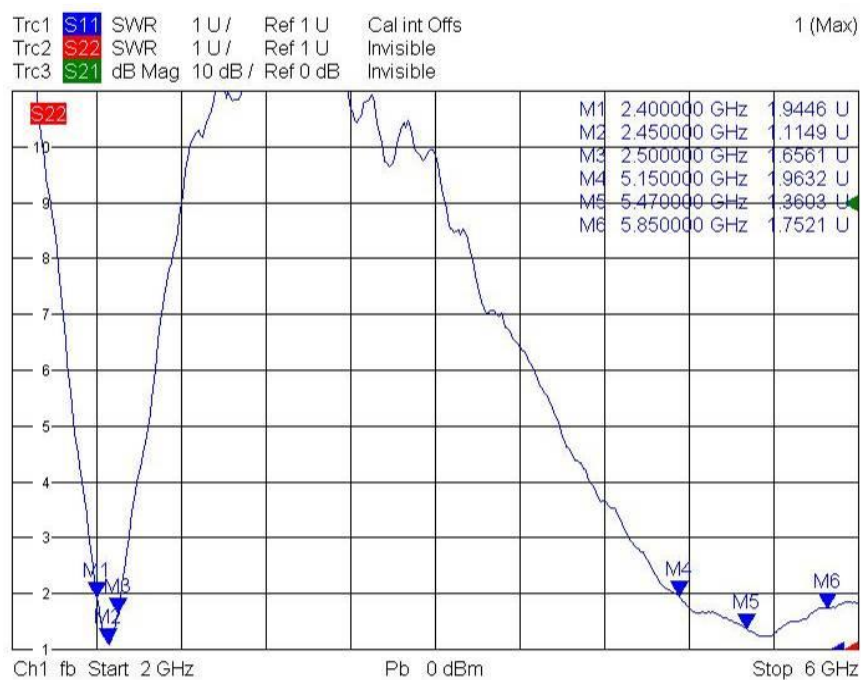
3.3 Antenna Material List

Items	Description
Antenna	3S.EK6TP.008WS
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	50.47	-2.97
2450	60.35	-2.19
2500	53.22	-2.74
5150	66.09	-1.8
5250	70.55	-1.51
5350	72.64	-1.39
5470	73.13	-1.36
5600	71.57	-1.45
5725	72.38	-1.4
5785	72.3	-1.4
5850	66.19	-1.79

4.3 Peak Gain

Frequency (MHz)	Gain (dBi)
2400	0.06
2450	1.08
2500	0.62
5150	2.73
5250	3.10
5350	3.15
5470	2.81
5600	3.35
5725	3.67
5785	3.28
5850	2.81

4.4 Antenna Pattern

Main

