

APPROVAL SHEET

Customer Name: **TPV**

Date: **2018/04/27**

Doc. Version: **1**

OEM P/N	317GAAWA616WNC
WNC P/N	81.EK615.G56
Description	MINNETONKA, 43TV WIFI MAIN ANTENNA, EK6-TP1
Version	1A

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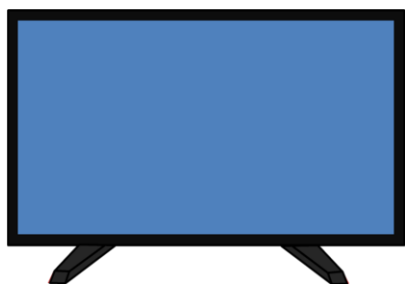
- 1. Introduction**
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1. Introduction

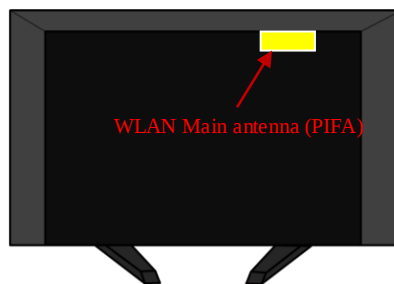
Antenna for 802.11a+n+g system

WLAN MAIN antenna (PIFA)

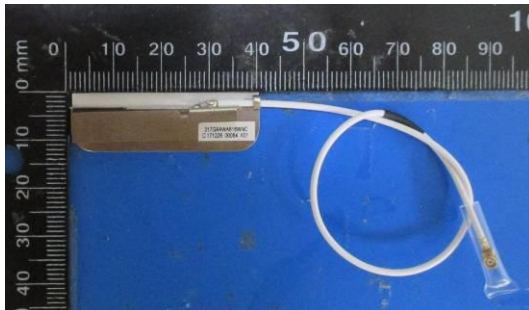
1. Location: Top Right of the TV Back Panel
2. Cable length : 184 mm, White (connector with Φ 1.37mm RF cable)



Front View



Back View

	WLAN MAIN Antenna
Position	Top Right of the TV Back Panel
Antenna Type	PIFA
Cable	Cable color : White, 1.37 (dia) x 184mm , RF connector
Weight	2.68 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.

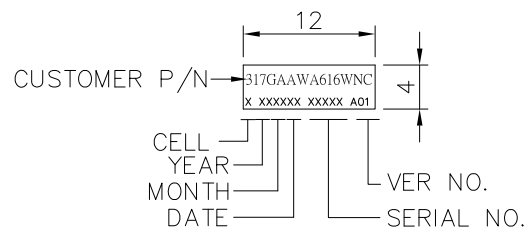
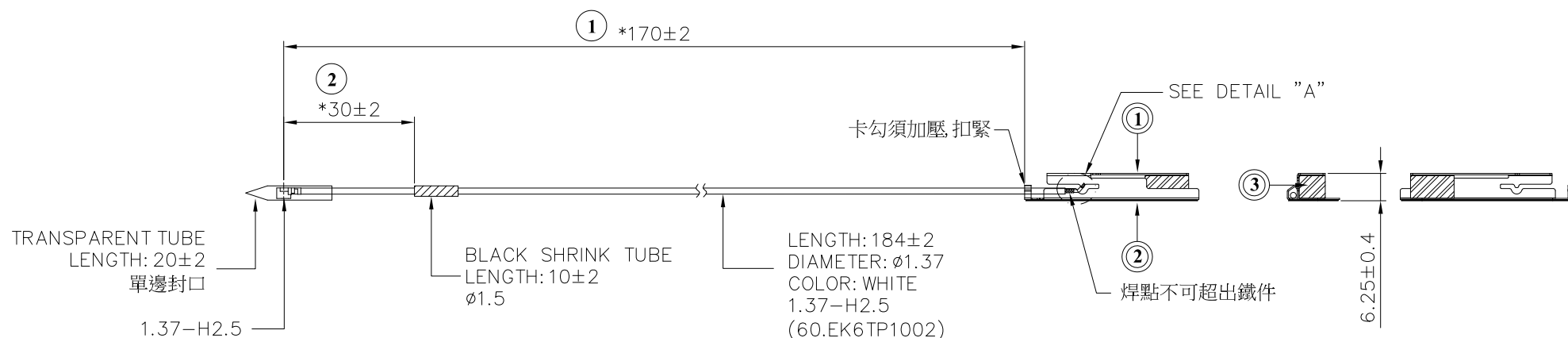
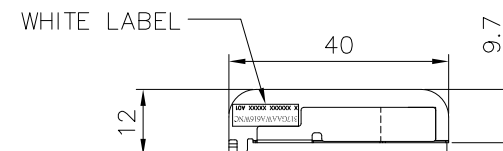
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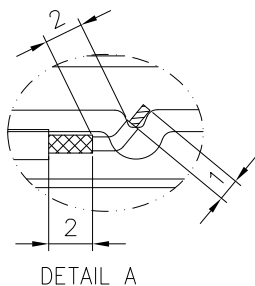
WNC CONFIDENTIAL

PART NUMBER BLOCK		CUSTOMER P/N BLOCK		CONFIRM ANTENNA SPEC.	
PART NUMBER	REV	PART NUMBER	REV	APPROVED	DATE
57.EK615.056	1	317GAAWA616WNC	A01	YANG SHUN LIU	05/09/18

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	1	RELEASE TO FILE	05/09/18	VINCENT CC LIN



DETAIL OF LABEL
SCALE : 2/1



SCALE: 4/1

"*"ARE THE CRITICAL DIMENSIONS

3	3T.EK6TP.001	BUFFER, BT-43, EVA60, EK6-TP1	EA	1
2	3T.EK6TP.003	PLATE, AL FOIL, BT-43, EK6-TP1	EA	1
1	3S.EK6TP.009	ANTENNA, SUS-1, BT-43, 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				MINNETONKA, 43TV WIFI MAIN ANTENNA, EK6-TP1	
		THIRD ANGLE PROJECTION	DRAWN	STACY CHANG	05/09/18	SIZE	DWG NO.
			ENGR	YANG SHUN LIU	05/09/18	A3	57.EK615.056
			APVD	VINCENT CC LIN	05/09/18	SCALE	1/1
		APPLICATION				SHEET	1 OF 1

1

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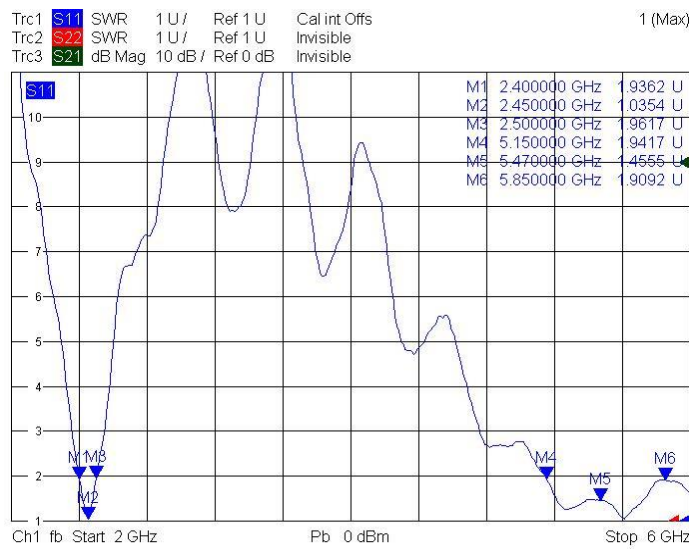
3.3 Antenna Material List

Items	Description
Antenna	3S.EK6TP.004ST
Cable	Φ1.37 Cable(White)
Connector	IPEX
Adhesive	王佳 TT219
BUFFER	EVA60

4. Antenna Performance

4.1 VSWR

Main



4.2 Efficiency data

Main

Freq(GHz)	Efficiency(%)	Efficiency(dB)
2400	43.86	-3.58
2450	55.97	-2.52
2500	46.58	-3.32
5150	59.51	-2.25
5250	63.96	-1.94
5350	66.42	-1.78
5470	65.08	-1.87
5600	65.93	-1.81
5725	66.16	-1.79
5785	60.52	-2.18
5850	60.57	-2.18

4.3 Peak Gain

Frequency (MHz)	Gain (dBi)
2400	1.97
2450	1.32
2500	0.41
5150	2.93
5250	3.17
5350	3.83
5470	3.06
5600	2.76
5725	2.67
5785	2.29
5850	2.39

4.4 Antenna Pattern

Main

