

APPROVAL SHEET

Customer Name: Wistron

Date:2021/12/09

Doc. Version: A01

OEM P/N	ASP6Y-100004		
Wistron P/N	2348-05574-001\$BA		
Description	Antennas Type : PCB Antenna for WLAN 802.11a/b/g/n/ac application Connector Type : IPEX NGFF Connector for 1.13 cable Cable Type : OD 1.13 RF Normal Cable Impedance : 50Ω Polarization : Linear Radiation pattern : Omni-directional		
Version	A01		

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer

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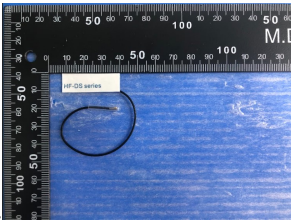
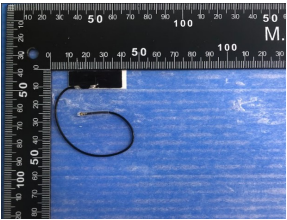
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1. Introduction

Antenna for 802.11 a/b/g/n/ac system

Main antenna (PCB)

- 1. Location: Below of the panel
- 2.Cable length of Main antenna: 115mm, Black

	Main Antenna	
Position	Below of the panel	
Antenna Type	PCB Antenna	
Cable	1.13 (Normal) x 115 mm, Black IPEX NGFF connector	
Photos	 正面背面	
Position		
Antenna Type		
Cable		
Photos		

2. Revision History

Date	Version	Revision History
01/28/2021	A01	New Release

3. Product Specifications

3.1 Specifications of Antenna Design

3.1.1 Return Loss

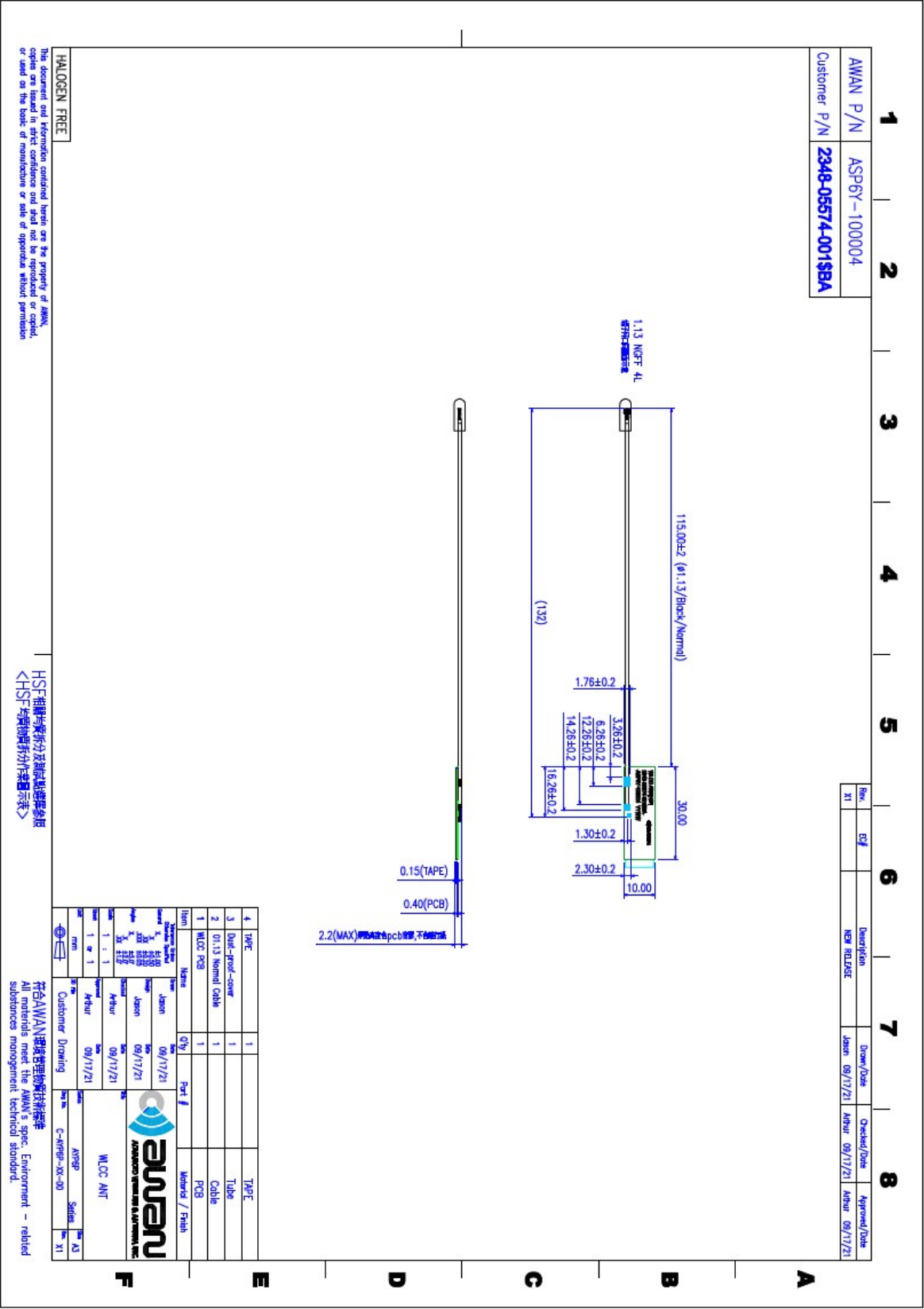
Return Loss	2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.85 GHz)				
	2.40 GHz	2.45GHz	2.50GHz	5.15 GHz	5.25GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz	5.785 GHz	5.85 GHz
MAIN	-20.04	-17.07	-18.87	-10.59	-10.01	-10.12	-10.93	-11.97	-12.24	-11.5	-10.57

3.1.2 Average gain and peak gain

Antenna Gain		2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.85 GHz)				
		2.40 GHz	2.45 GHz	2.50GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz	5.785 GHz	5.85 GHz
MAIN	Peak dBi	2.59	2.65	2.69	2.72	2.55	2.84	2.73	2.79	2.71	2.54	2.49
	Avg dBi	-2.83	-2.65	-2.72	-2.81	-2.68	-2.41	-2.46	-2.56	-2.72	-2.77	-2.89

3.2 Mechanical Specifications

See the attached drawing.

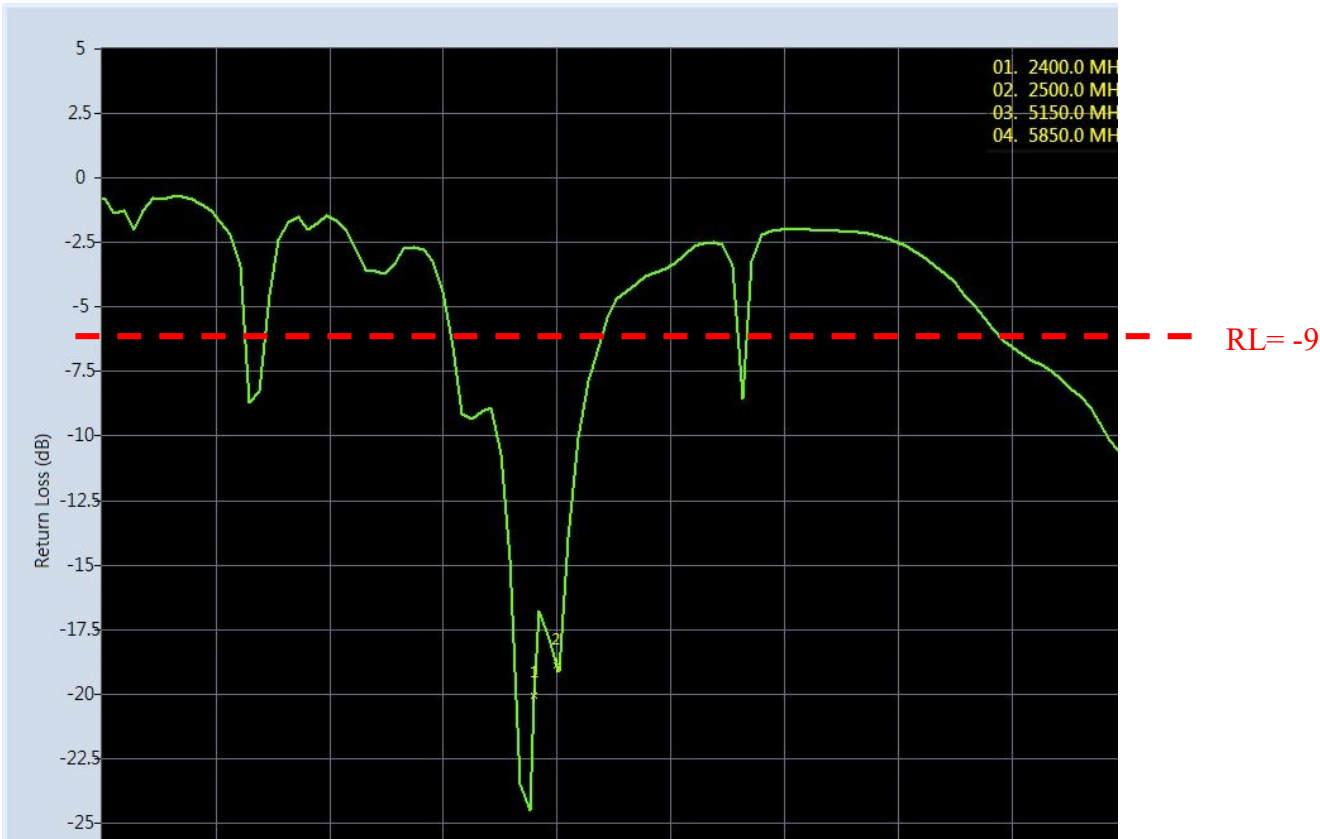


3.3 Antenna Material List

Antenna
1. PCB
2. Coaxial cable and IPEX NGFF connector
3. Label
4. Antenna weight:0.28g

4 Antenna Performance

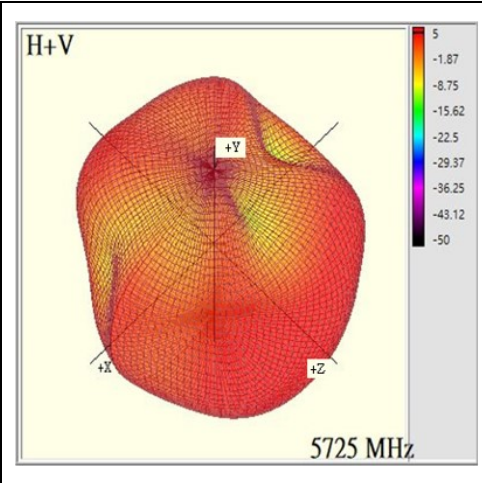
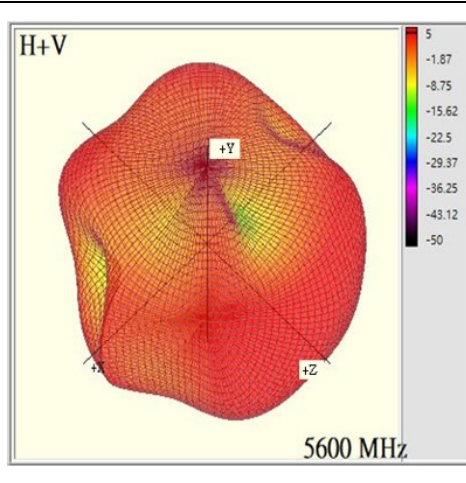
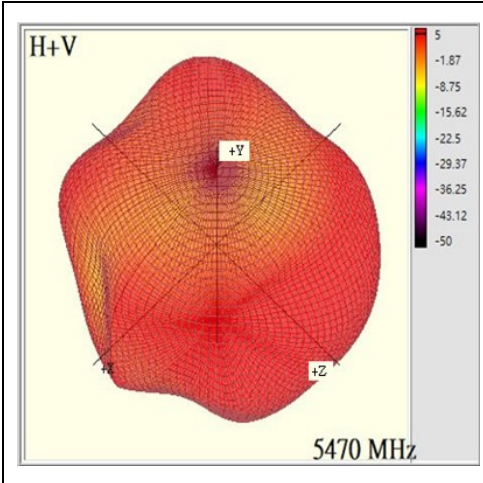
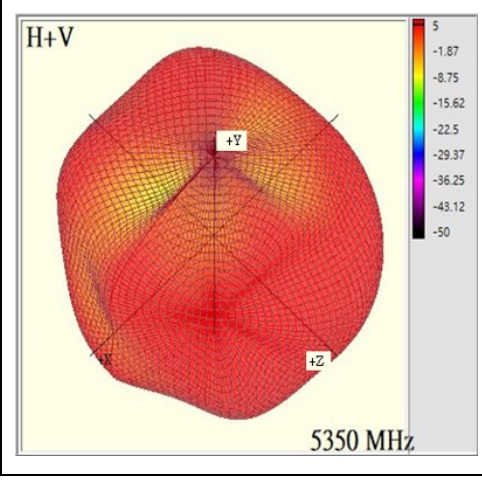
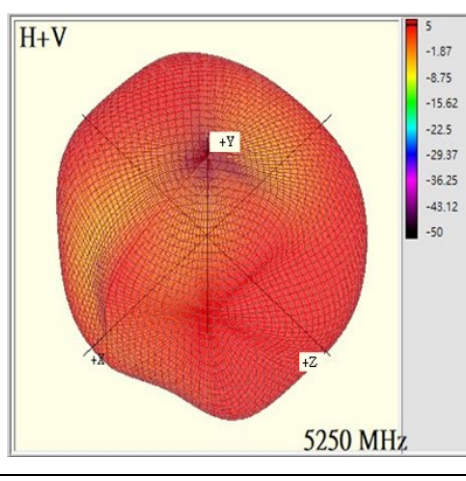
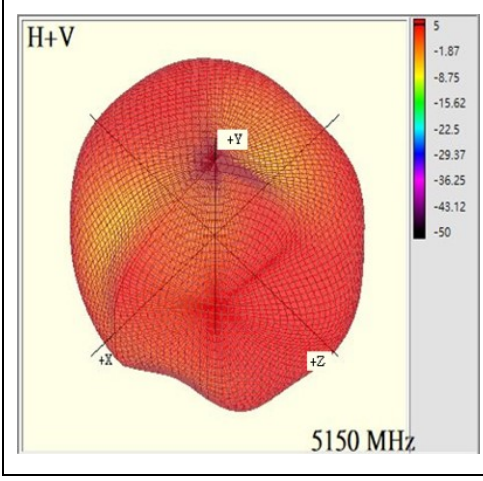
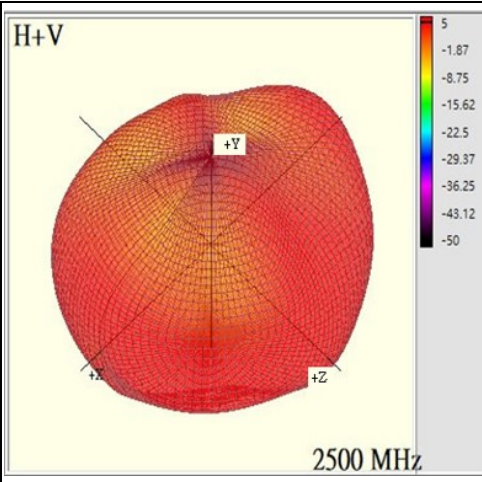
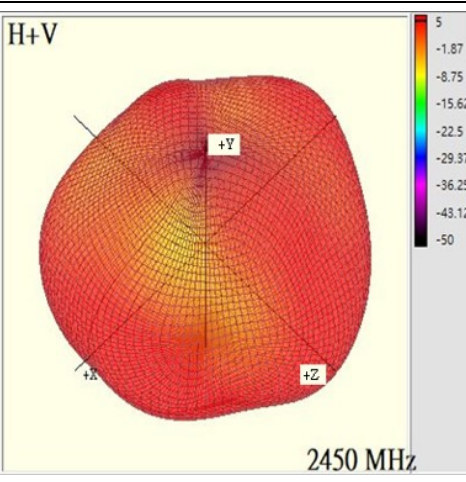
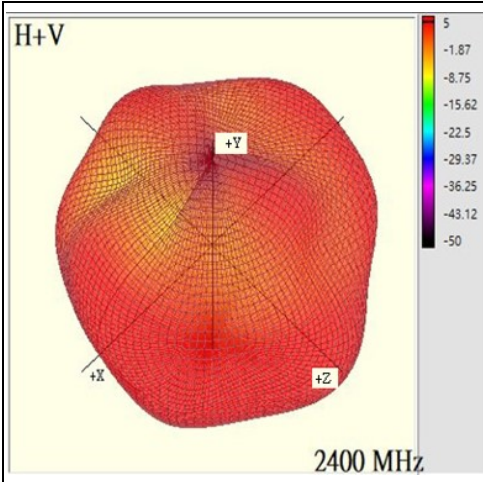
4.1 Return Loss

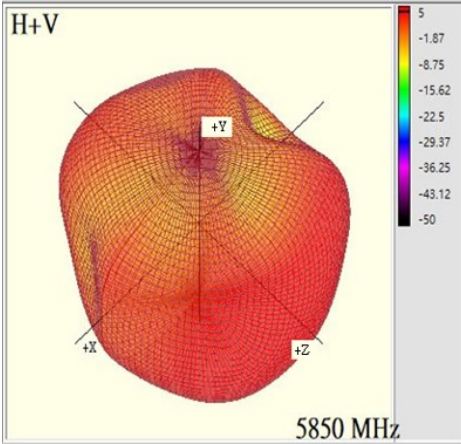
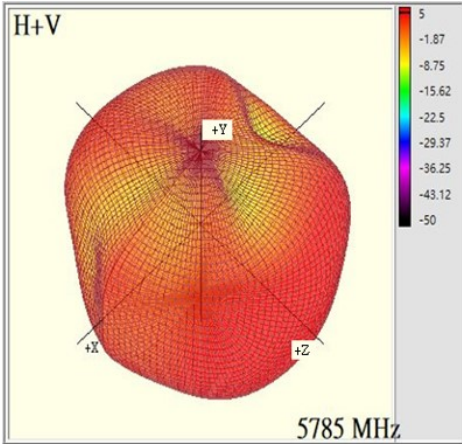


4.2 Peak Gain and Average Gain

	Main Antenna Gain				
Frequency	2D		3D		
	H-peak gain(dBi).	V-peak gain(dBi).	Peak gain(dBi)	Average gain(dBi)	Efficiency(%)
2400 MHz	2.36	-3.6	2.59	-2.83	52.08
2450 MHz	2.07	-4.24	2.65	-2.65	54.36
2500 MHz	2.53	-3.59	2.69	-2.72	53.48
5150 MHz	-5.42	-2.80	2.72	-2.81	52.35
5250 MHz	-5.23	-3.67	2.55	-2.68	53.95
5350 MHz	-2.7	-1.23	2.84	-2.41	57.48
5470 MHz	-3.33	-2.75	2.73	-2.46	56.74
5600 MHz	-3.51	-3.84	2.79	-2.56	55.51
5725 MHz	-2.84	-4.26	2.71	-2.72	53.51
5785 MHz	-3.85	-4.41	2.54	-2.77	52.82
5850 MHz	-3.78	-4.65	2.49	-2.89	51.37

4.3 Antenna 3D Pattern





4.4 Antenna 2D Pattern

