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2x2 MiMo 5dBi WiFi Antenna
SMA-Male Connector

LPTNG2471M2DMG0457: 2400-2500 and 4900-7125MHz



Features & Applications:

- *2x2 MiMo WiFi6E/7*
- *Ground independent (w/ mounting washer)*
- *UL94-V0 Fire Rating*
- *Low profile 34.3mm when installed*
- *Indoor and outdoor use IP67 / UV rated*
- *IoT, M2M, industrial metering*
- *DSRC, ISM band radios*

Electrical specifications @ 25° C – Operating Temperatures – 40°C to +80°C

Frequency Bands – 2400-2500MHz & 4900-7125MHz

Antenna type	Nominal Impedance	Polarization	Radiation pattern	Power withstanding	DC Ground
Dipole	50Ω	Linear	Omni	3W	No

	Mounting surface	Free Space [4]		Dia 120mm GP test		Dia 300mm GP test	
	Frequency (MHz)	2400-2500	4900-7125	2400-2500	4900-7125	2400-2500	4900-7125
Port 1	VSWR	< 2	< 2.5	< 2	< 2.5	< 2	< 2.5
	Return Loss (dB)	< -10	< -7.5	< -10	< -7.5	<-10	< -7.5
	Avg. Peak Gain (dBi)	4.5	3.0	4.1	5.1	2.1	4.9
	Avg. Efficiency (%)	69	66	69	67	65	68
Port 2	VSWR	< 2	< 2.5	< 2	< 2.5	< 2	< 2.5
	Return Loss (dB)	< -10	< -7.5	< -10	< -7.5	<-10	< -7.5
	Avg. Peak Gain (dBi)	5.9	3.6	3.9	5.6	3.8	5.7
	Avg. Efficiency (%)	68	65	68	66	68	67

Mechanical Specifications

Orderable P/N: LPTNG2471M2DMG0457

Size (Diameter x Height)	Weight	Housing Color	Housing Material	Fixing System
Φ45.50 X 53.5 mm (Φ1.79x2.11")	185 g	Black	PC (UV-stabilized)	Direct Mount
Height installed	**Connector Type**	**Cable Style**	**Cable Length**	
34.3 mm / 1.35" (After compression)	SMA-Male	RG316 or equivalent	457mm (1.5FT)	

Environmental Specifications

Operating Temperature	Storage Temperature	Ingress Protection	Flame Rating	RoHS Compliant
-40°C to 85°C	-40°C to 85°C	IP67	UL94-V0	Yes

Notes:

1. Flame Rating (radome): UL94-V0.
2. Operating temp and Storage temp to be -40℃～85℃.
3. Physical: Dimensional stability, Value to be 0.0%, Test method to be ASTMD1042 ISO2796.
4. Specifications measured with supplied Dia 60mm Mounting Washer.

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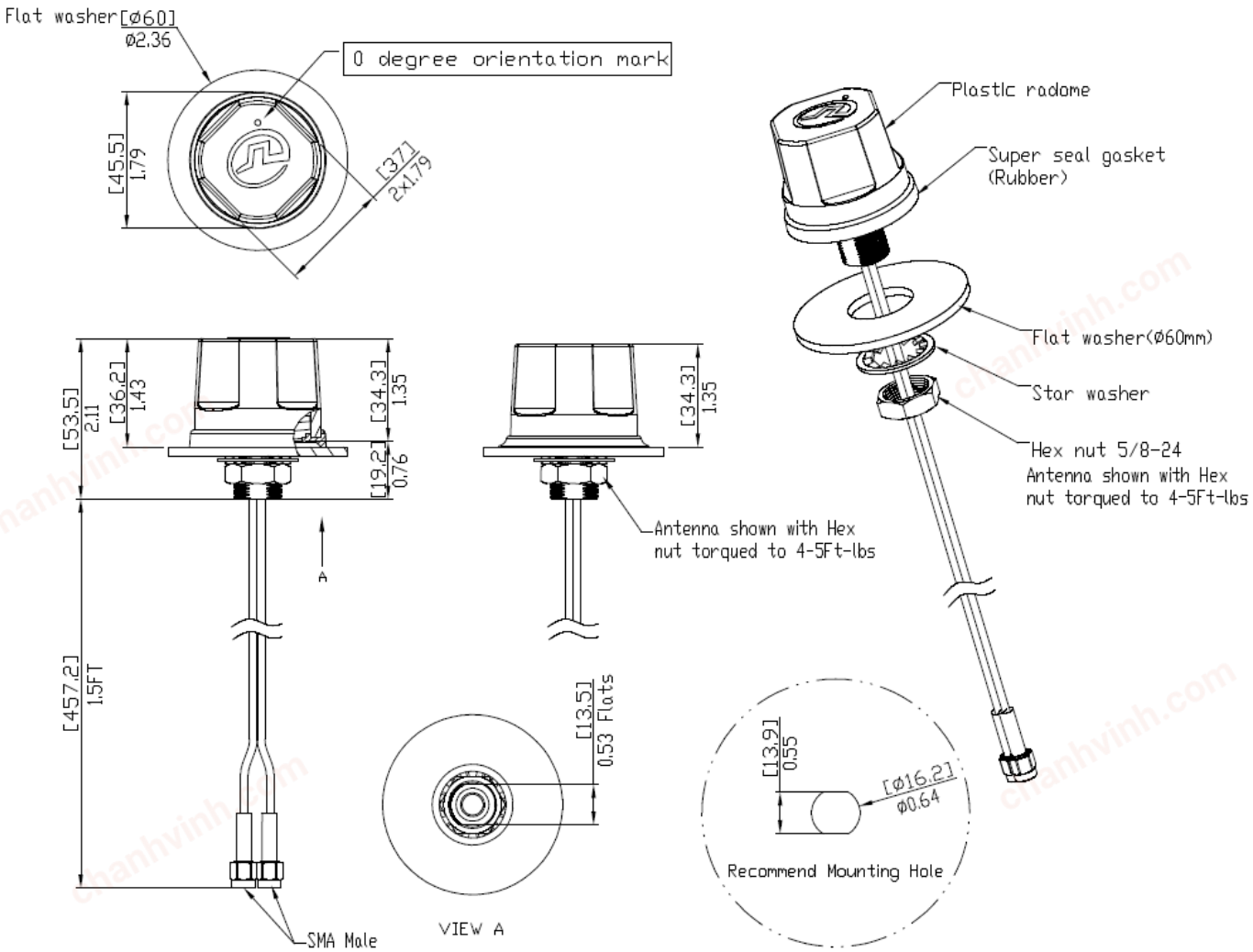
2x2 MiMo 5dBi WiFi Antenna
SMA-Male Connector

LPTNG2471M2DMG0457: 2400-2500 and 4900-7125MHz

Family Products – LPT WiFi						
LPT WiFi 6E/7 Products 2400-2500/4900-7125MHZ						
Orderable P/N	**No. of Total Ports**	**Siso/MiMo**	**Cable length**	**Connector**	**Ground Independent**	**Note**
LPT2400/71DMN	1	Siso	No	N-Female	No	
LPTNG2400/71DMN	1	Siso	No	N-Female	Yes	
LPTNG24-71DMG0457	1	Siso	457mm(1.5Ft)	SMA-Male	Yes	
LPTNG2471M2DMG0457	2	2xMiMo	457mm(1.5Ft)	SMA-Male	Yes	

Mechanical Drawing

LPTNG2471M2DMG0457

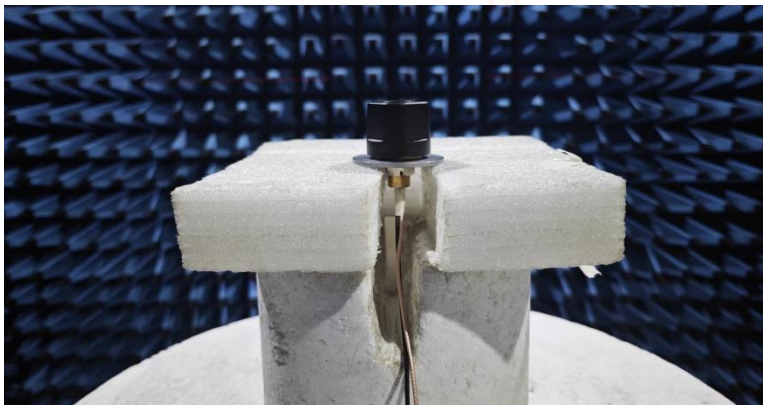


Dimensions: [mm] Inches

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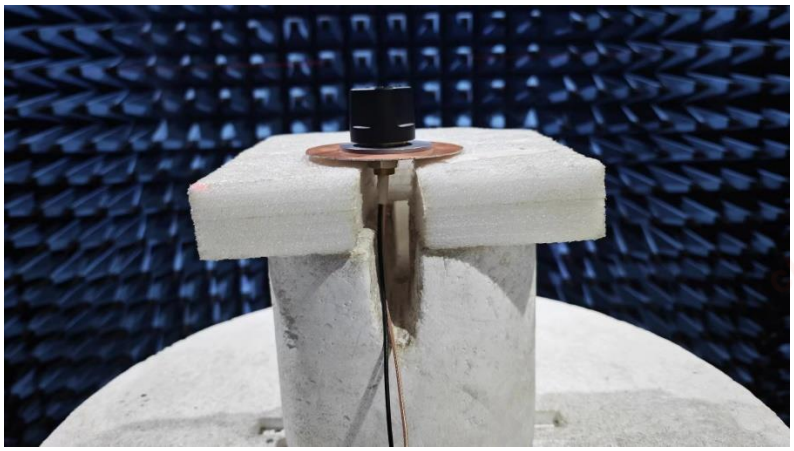
Testing Setup

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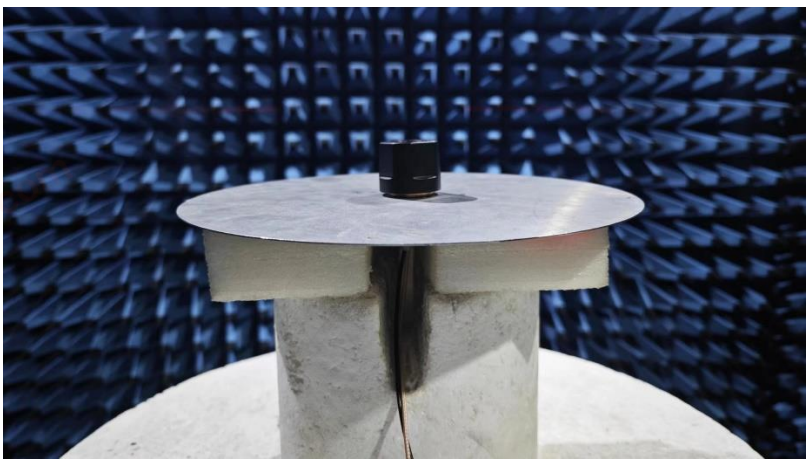


Radiation element is test on D60mm ground plane

(D60mm flat washer is standard part in the packing)



Radiation element is test on D120mm ground plane

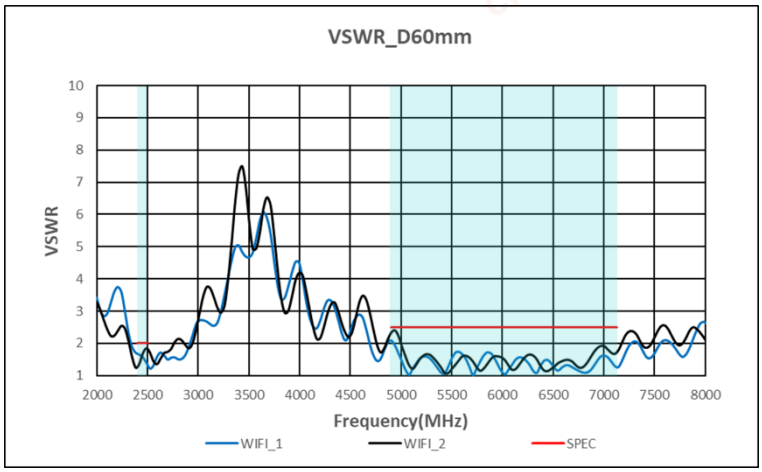


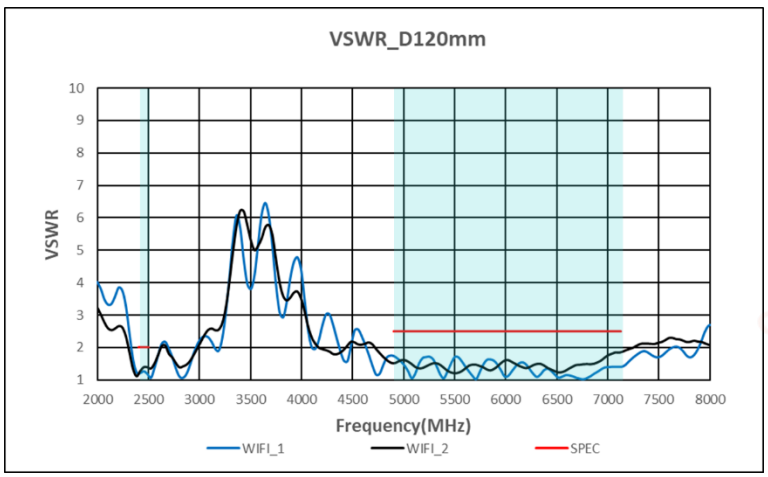
Radiation element is test on D300mm ground plane

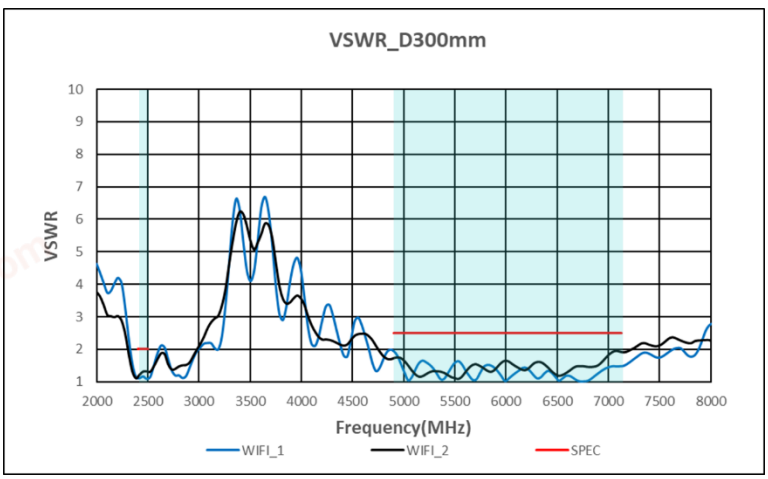
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Charts- VSWR , Return Loss and Isolation

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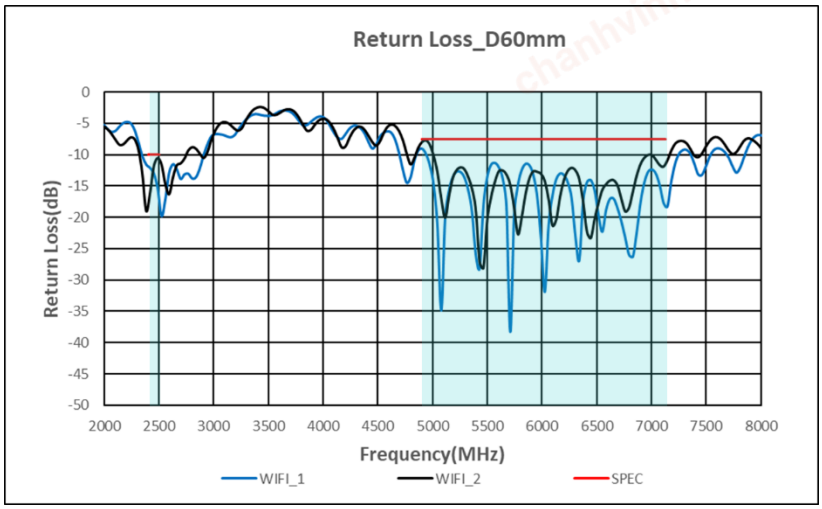


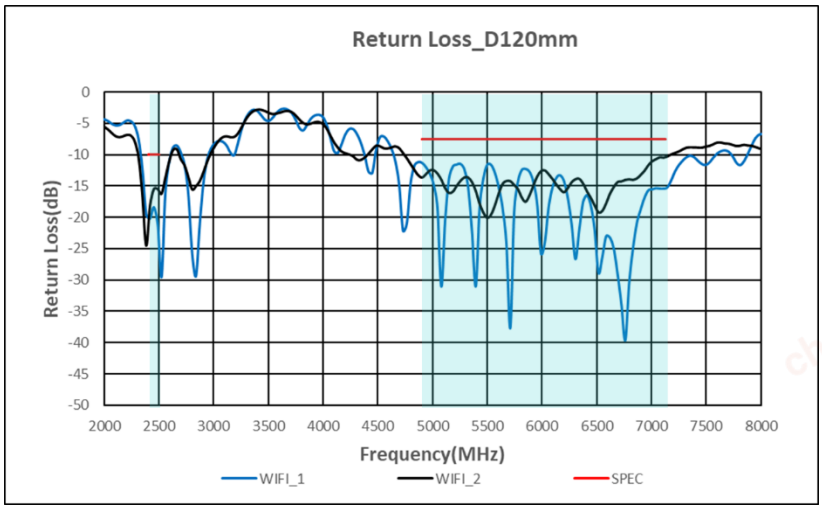


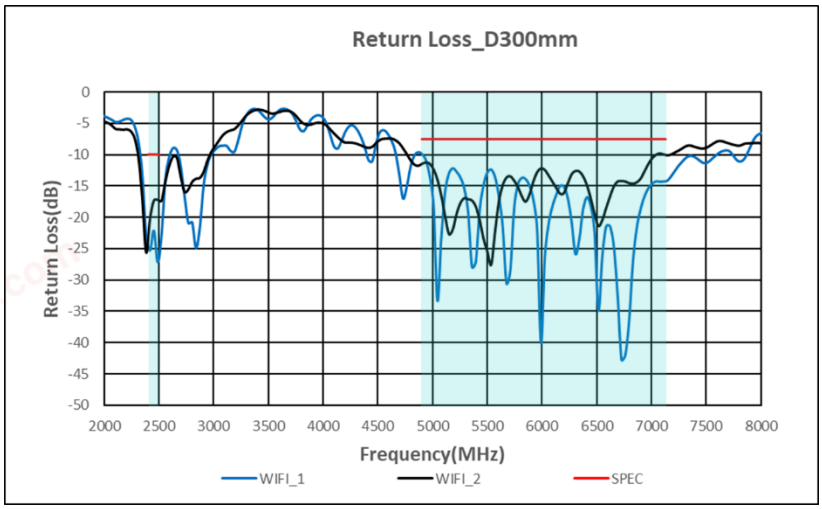


Antenna test with 1.5FT RG316 cable & SMA connector

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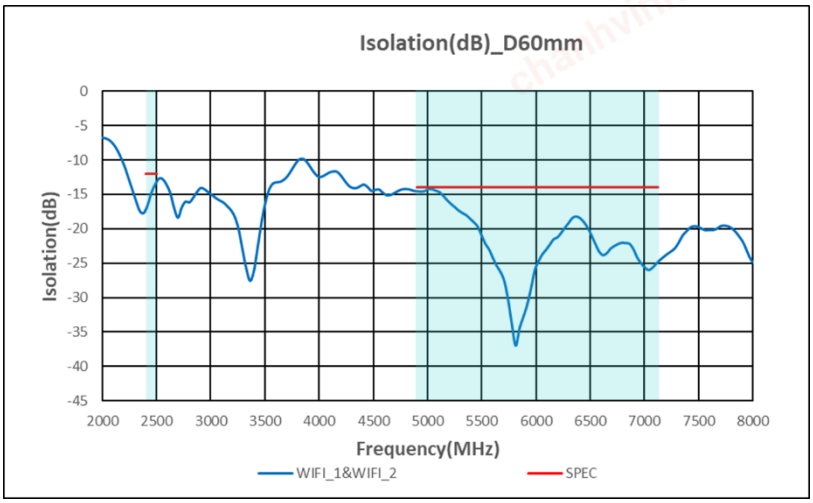


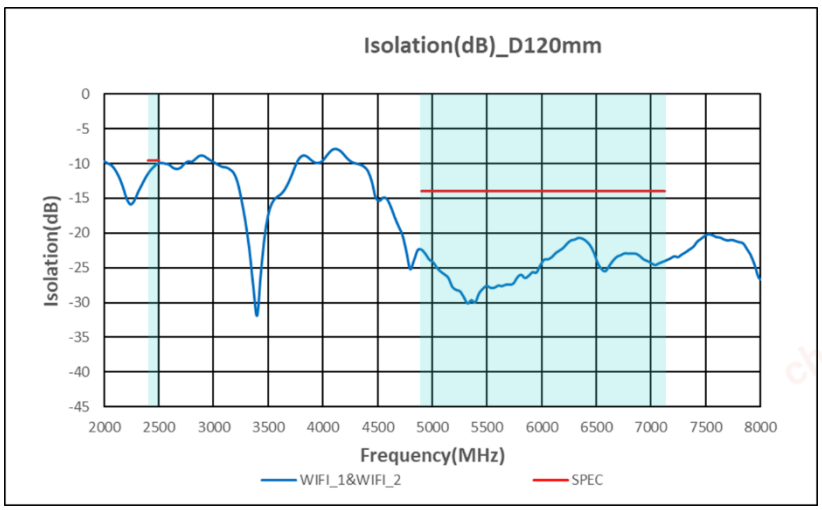


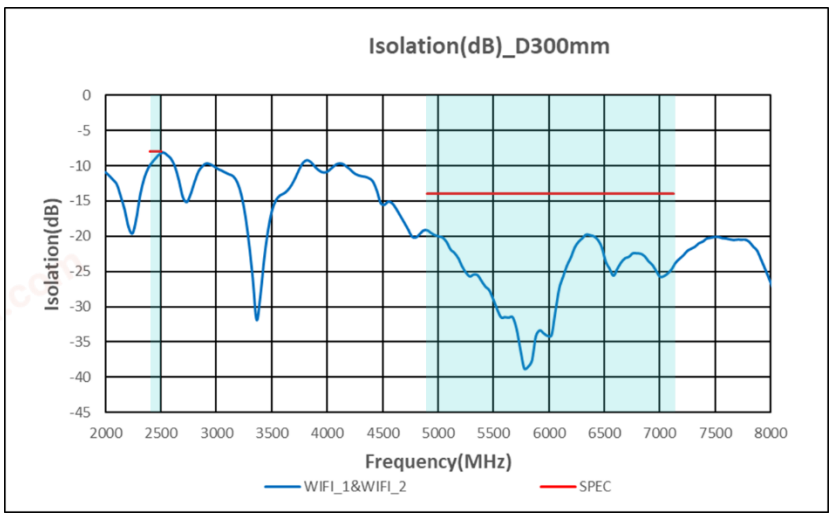


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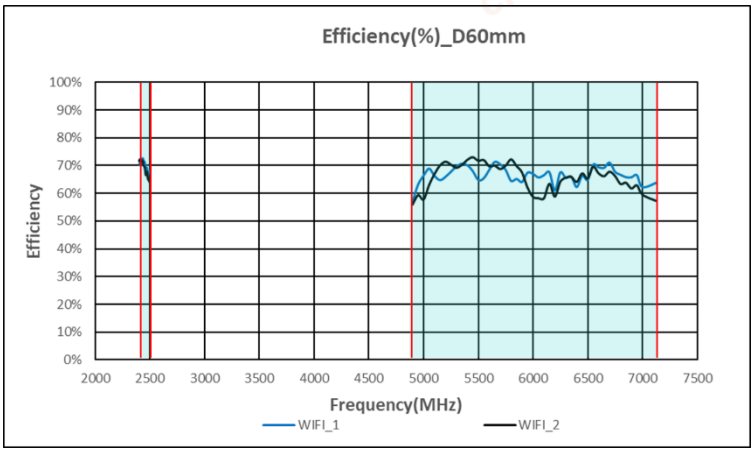


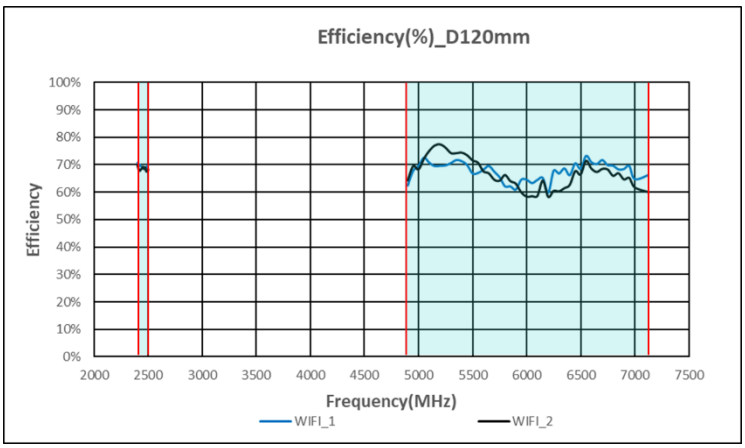
Antenna test with 1.5FT RG316 cable & SMA connector

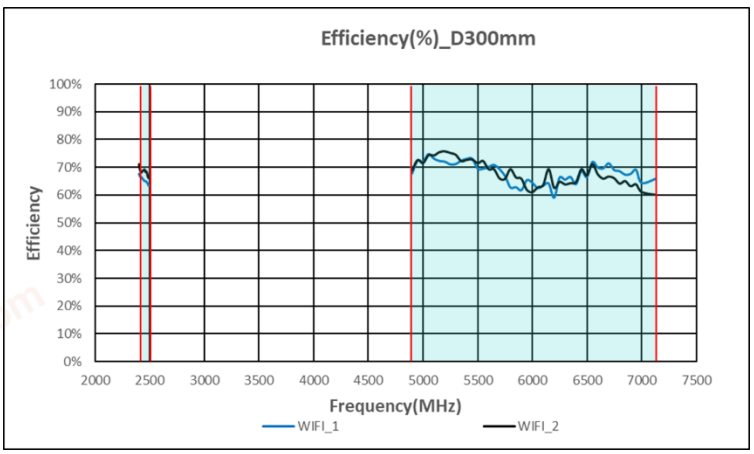
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Charts- Efficiency, and Peak Gain

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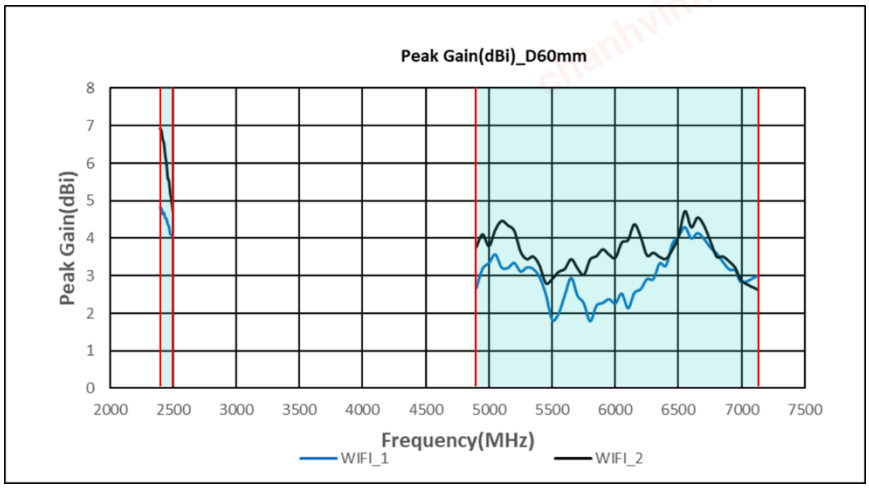


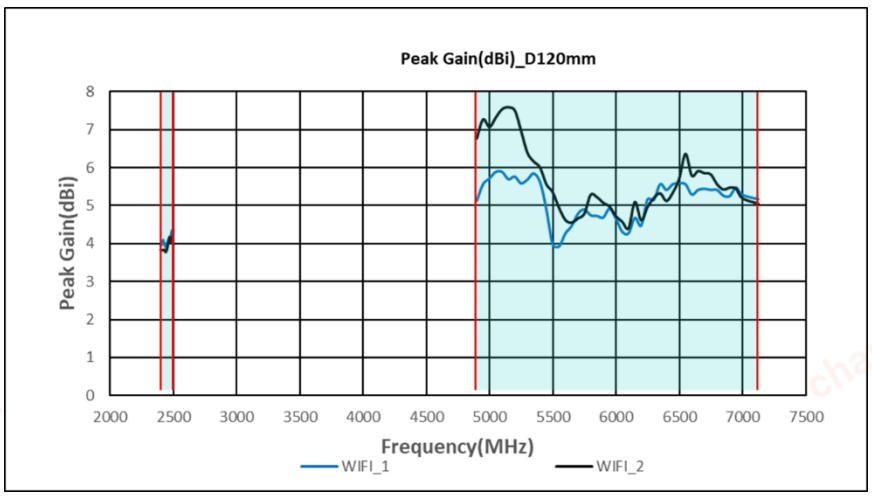


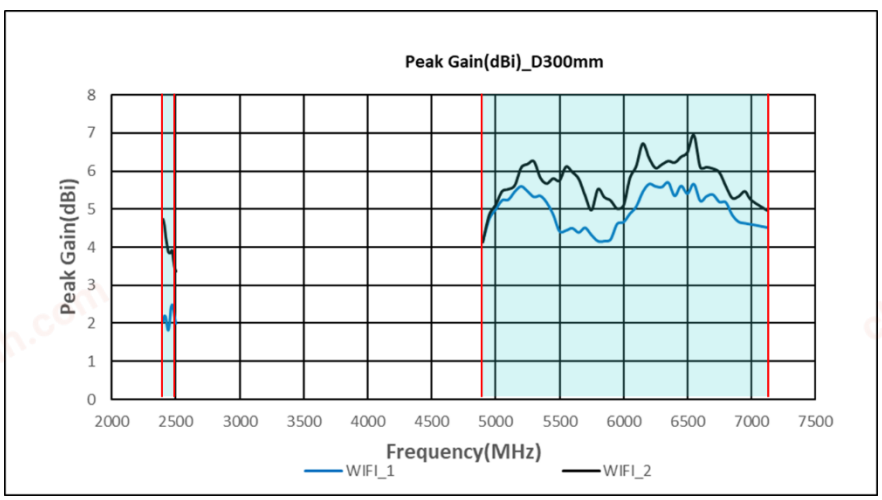


Antenna test with 1.5FT RG316 cable & SMA connector

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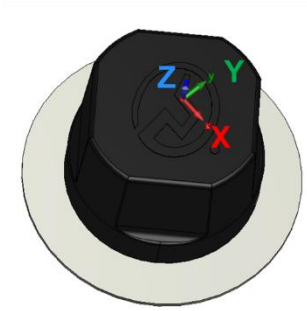


Antenna test with 1.5FT RG316 cable & SMA connector

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Port1_Charts-XY Gain Plots

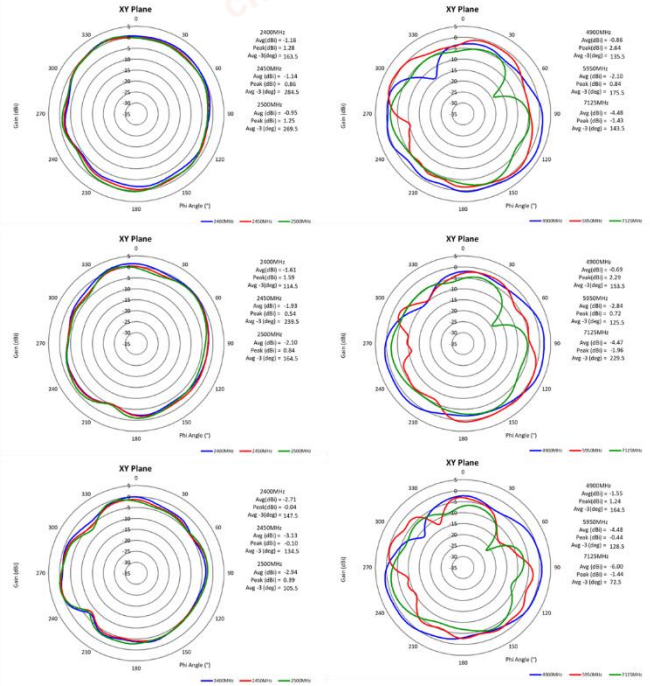
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D60mm

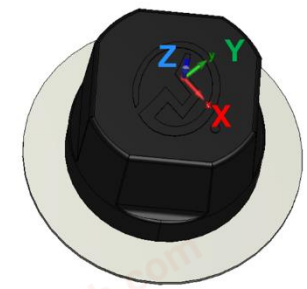
D120mm

D300mm



Port1_Charts – ZX Gain Plots

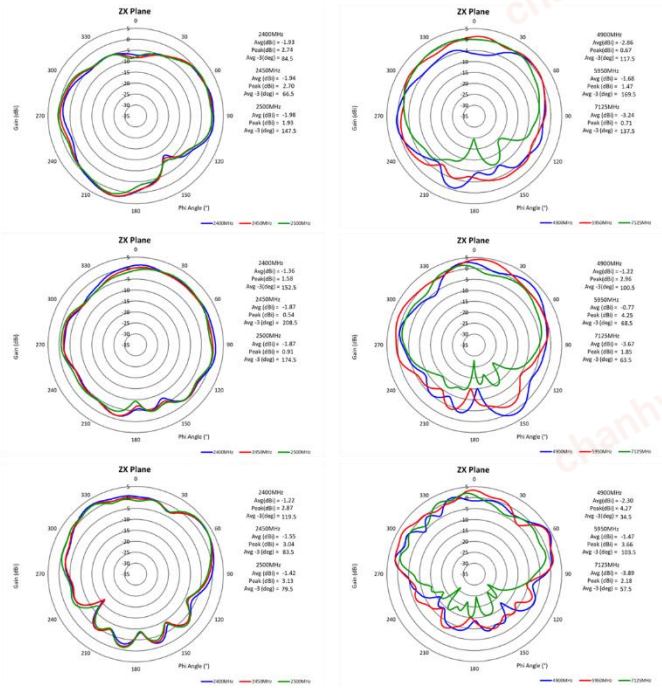
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D60mm

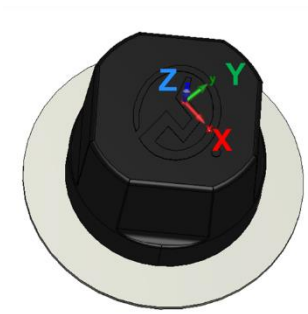
D120mm

D300mm

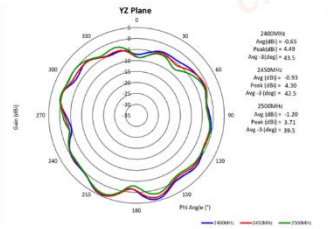


Port1_Charts – ZY Gain Plots

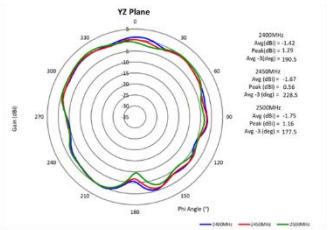
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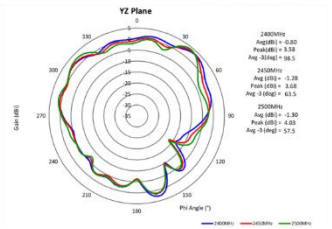
D60mm



D120mm

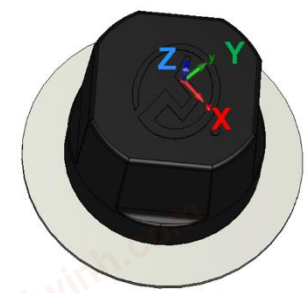


D300mm

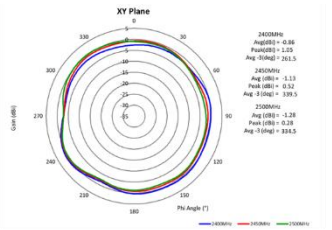


Port2_Charts – XY Gain Plots

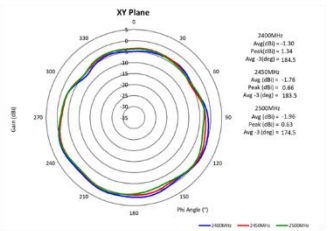
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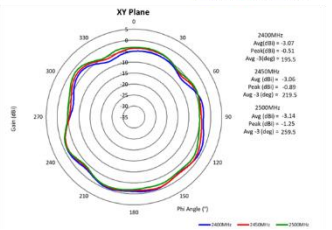
D60mm



D120mm

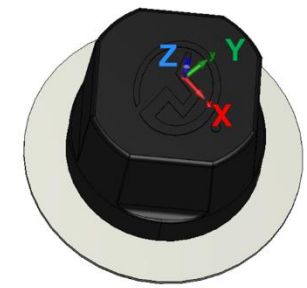


D300mm

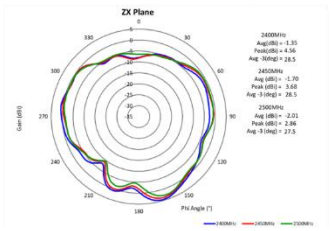


Port2_Charts – ZX Gain Plots

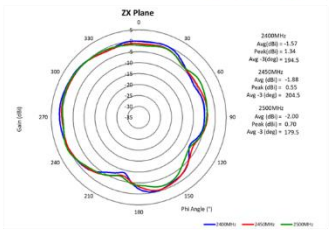
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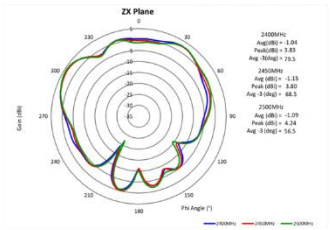
D60mm



D120mm

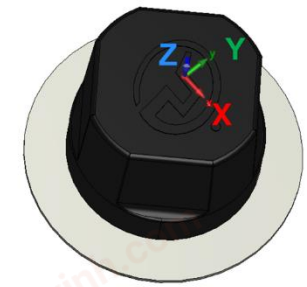


D300mm

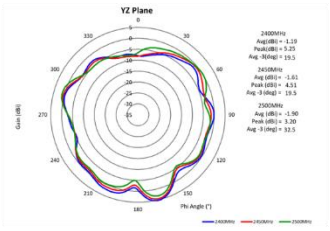


Port2_Charts – ZY Gain Plots

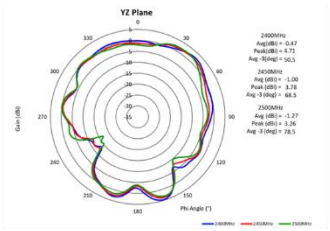
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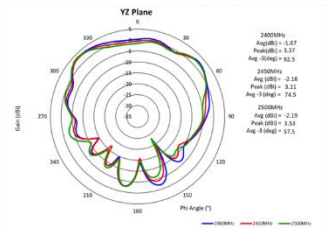
D60mm



D120mm



D300mm



Antenna test with 1.5FT RG316 cable & SMA connector

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Packaging

LPTNG2471M2DMG0457

1. Antennas packed in a plastic bag.
2. Label on each plastic bag with part number, description, date code.
3. Out box:400x300x300mm, 48Pcs/Box;

For More Information:
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