

2x2 MiMo 5G/4G Antenna

Direct mount with SMA-Male cable feed

LPT600-71M2DMG0305: 617-960 and 1710-2690 and 3300-7125MHz



Features & Applications:

- 2x2 MiMo cellular 5G-FR1, 4G LTE
- WiFi6/7, DSRC, ISM compatible
- Indoor and Outdoor rated
- Ommi radiation pattern
- IoT, M2M, industrial metering, base stations

Electrical specifications @ 25° C – Operating Temperatures – 40°C to +85°C							
Frequency Bands – 617-960MHz & 1710-2690MHz & 3300-7125MHz							
Antenna type	Nominal Impedance	Polarization		Radiation pattern	Power withstanding		DC Ground
Monopole	50Ω	Linear		Omni	3W		No
	Frequency (MHz)	617-960	1710-2690	3300-4200	4400-5000	5150-5925	6000-7125
Port 1	VSWR	< 3.5	< 2.5	< 2	< 2	< 2	< 2
	Return Loss(dB)	< -5	< -7	< -10	< -10	< -10	< -10
	Avg. Peak Gain (dBi)	0.2	4.0	7.0	4.3	6.8	4.7
	Avg. Efficiency (%)	40	54	58	55	66	56
Port 2	VSWR	< 3.5	< 2.5	< 2	< 2	< 2	< 2
	Return Loss(dB)	< -5	< -7	< -10	< -10	< -10	< -10
	Avg. Peak Gain (dBi)	0.4	4.1	8.5	6.3	7.3	5.6
	Avg. Efficiency (%)	39	55	64	67	60	57

Mechanical Specifications				
Orderable PN: LPT600-71M2DMG0305				
Dimension with connector (Diameter x Height)	Color	Connector Type	Fixing System	Ingress Protection
Φ44.20 x 115.58 mm	Black	SMA-Male	Direct Mount	IP67
Height installed	Weight	Mounting stud	Cable Style	Cable Length
96.6 mm (After compression)	1.3 kg	Brass	RG316	3048 mm (10 ft)

Notes:

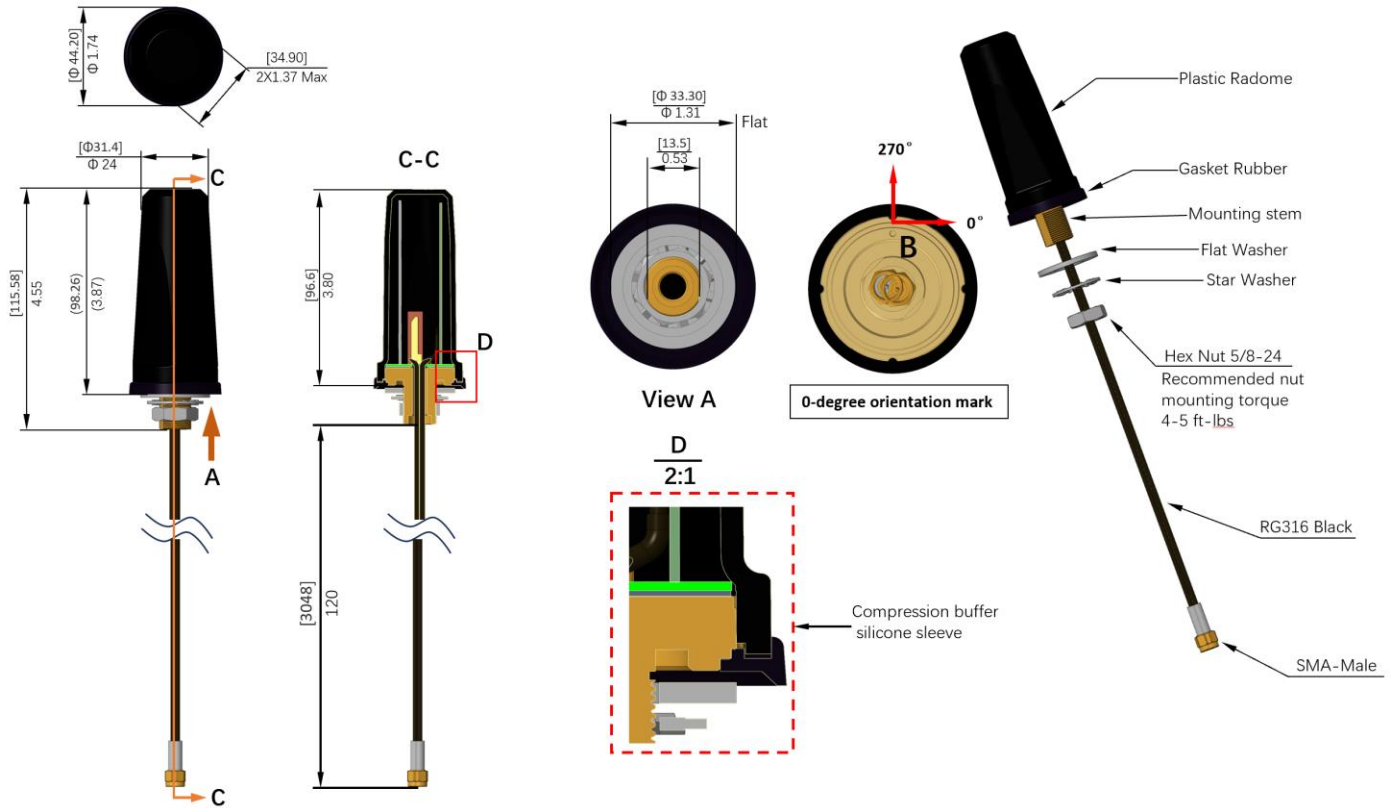
- 1.Mounting hole diameter: > 17.8mm.
- 2.Flame Rating(Radome): UL94-V0.
- 3.Operating temp and Storage temp to be -40°C ~ 85°C.
- 4.Physical: Dimensional stability, Value to be 0.0%, Test method to be ASTM D1042 ISO2796.

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Mechanical Drawing

LPT600-71M2DMG0305



Testing Setup

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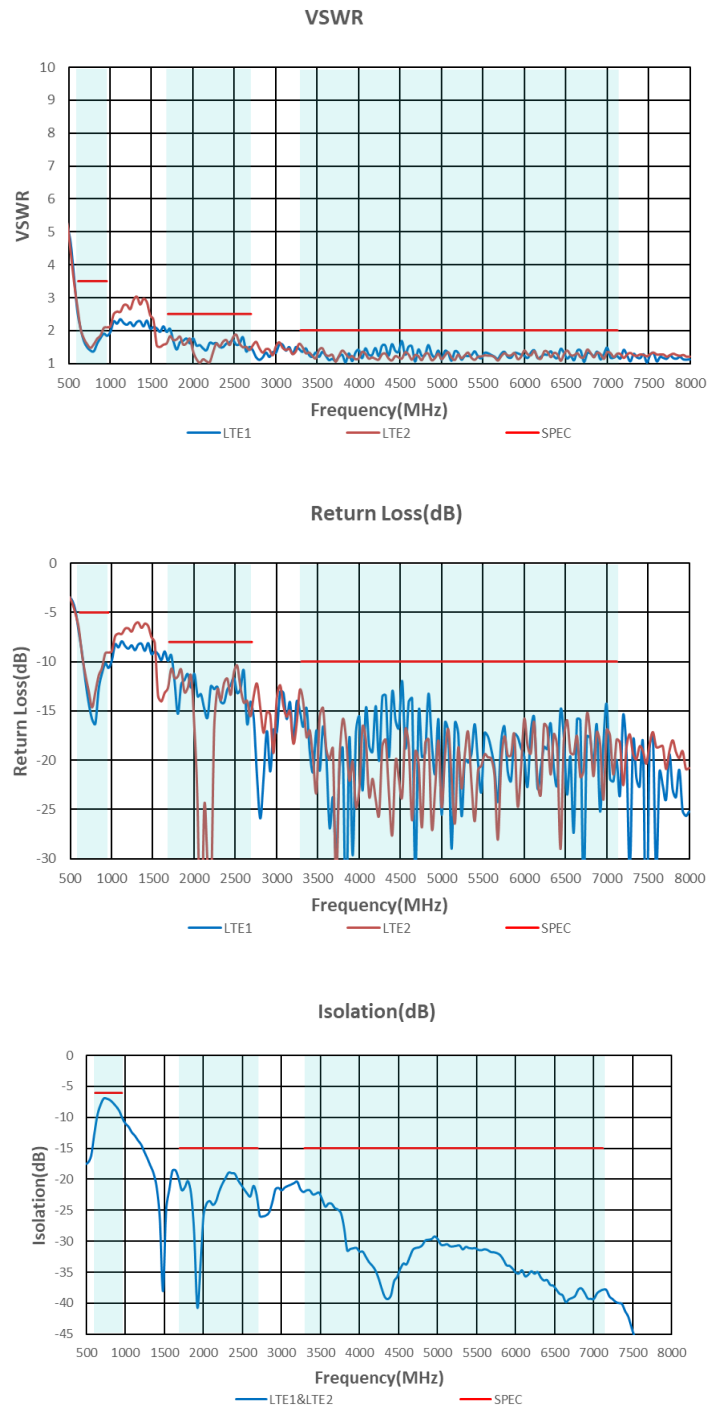
Radiation element is test on 300*300mm ground plane

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Charts- VSWR, Return Loss, Isolation

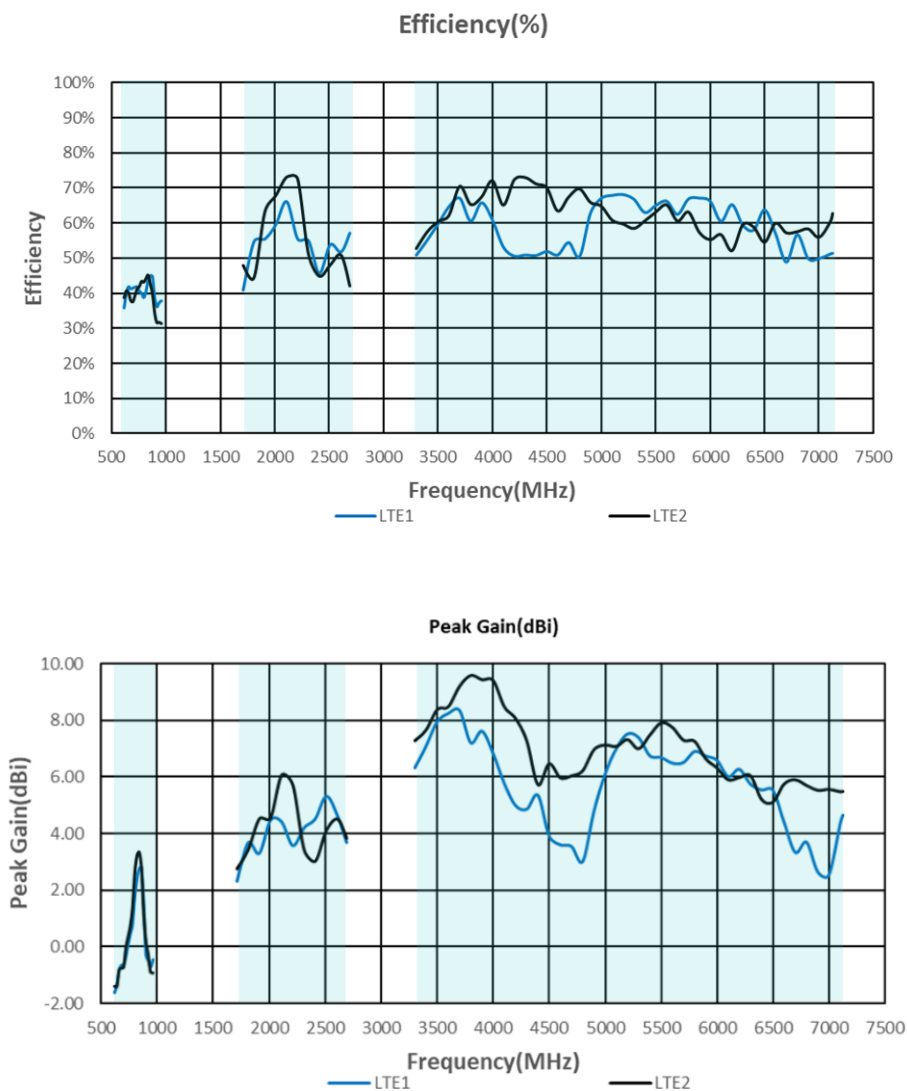
LPT600-71M2DMG0305



Antenna test with 10ft RG316 cable & SMA connector

Charts- Efficiency, and Peak Gain

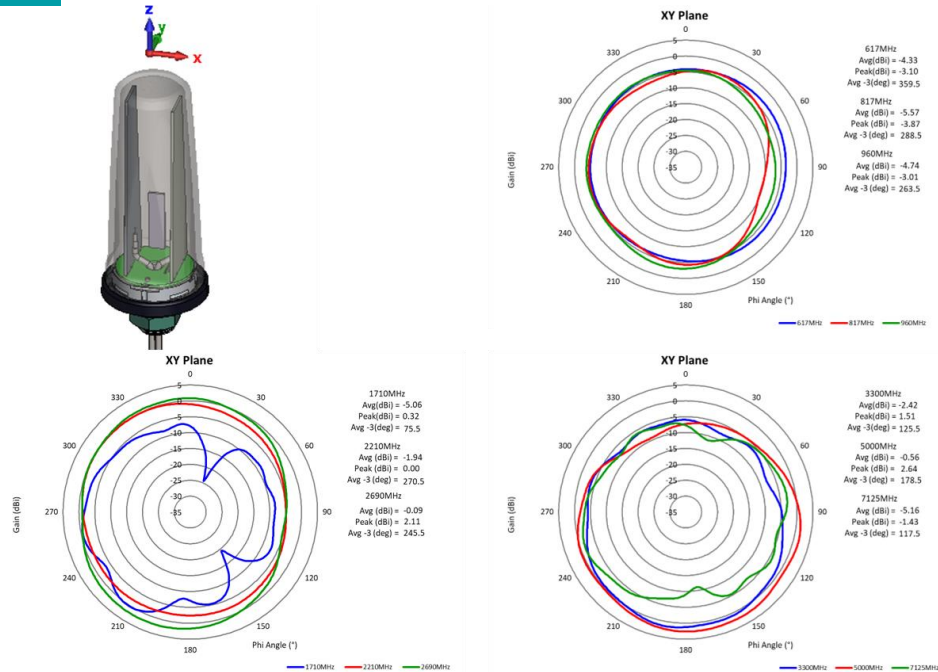
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Antenna test with 1 ft RG316 cable & SMA connector

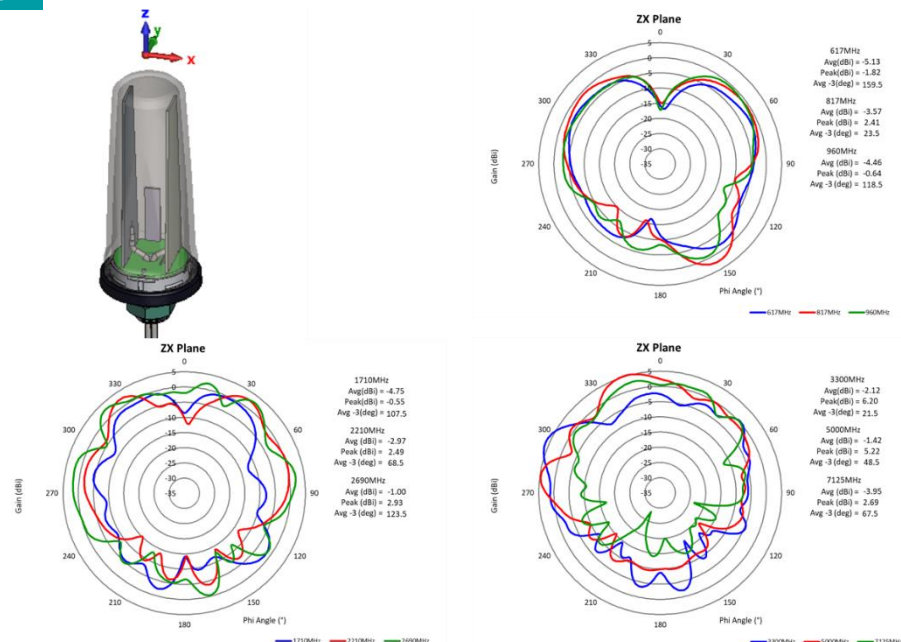
Port1_Charts-XY Gain Plots

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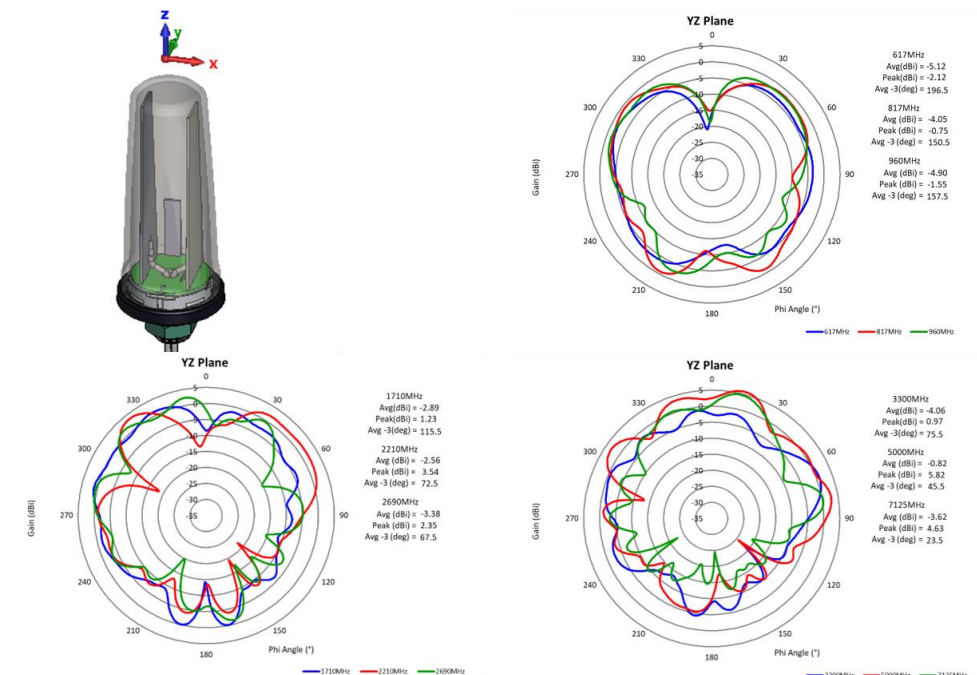
Port1_Charts – ZX Gain Plots

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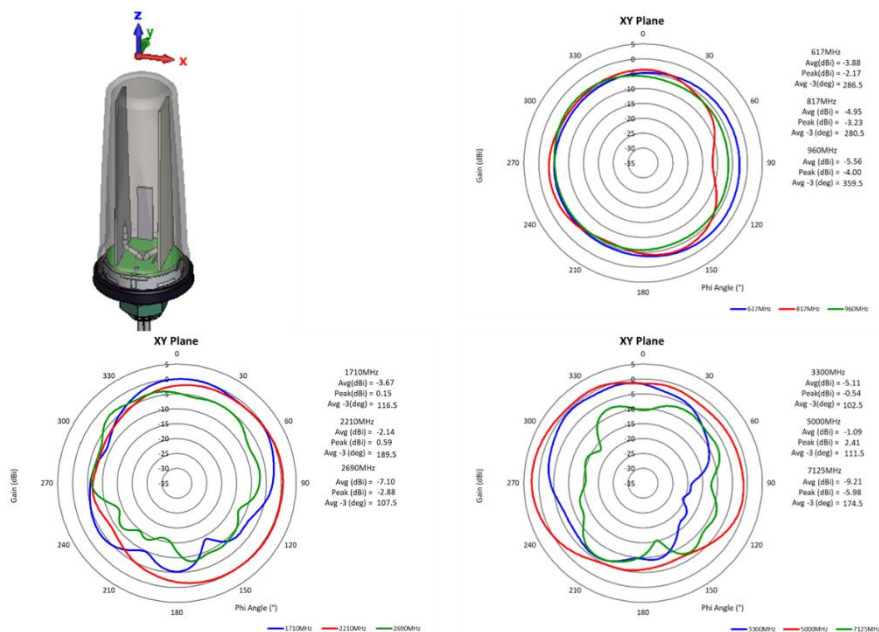
Port1_Charts – ZY Gain Plots

LPT600-71M2DMG0305



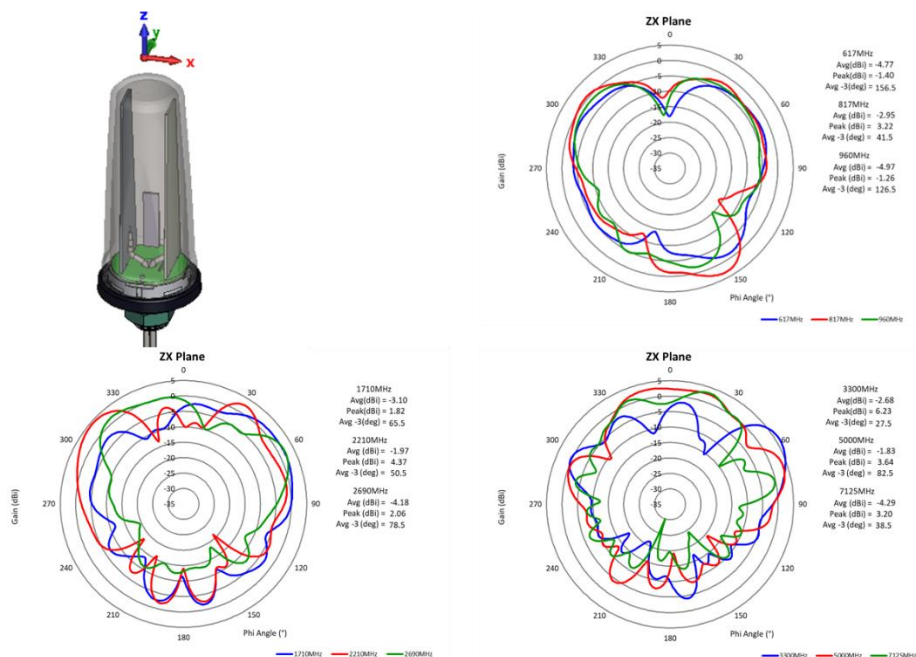
Port2_Charts – XY Gain Plots

LPT600-71M2DMG0305



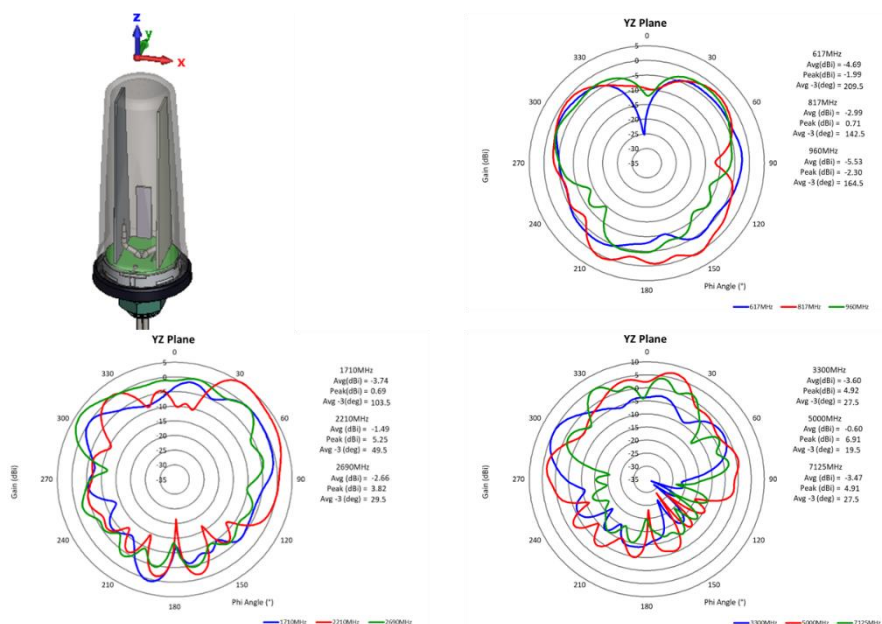
Port2_Charts – ZX Gain Plots

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Port2_Charts – ZY Gain Plots

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Antenna test with 1 ft RG316 cable & SMA connector

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Packaging

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1. Antennas packed in a plastic bag.
2. Label on each plastic bag with part number, description, date code.
3. Out box: 400X300X300mm, 30Pcs/Box;

For More Information:

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