

Series: Omni Antenna

**Description:**

Multiband Swivel Dipole 617-3900MHz

**PART NUMBER: SPDA24617/3900**



**Features:**

- 617-960 MHz
- 1400-2700 MHz
- 3200-3900 MHz
- Omni pattern in H-plane
- Gain 1 / 2.5 / 3 dBi
- Power rating 5W
- IP65

RoHS Compliant



**Applications:**

- LTE Routers / Gateways
- 4G / 5G LTE
  - 617-960/1400-2170/2300-2700/3200-3900MHz
  - *Includes New Band 71 (617-698 MHz) and CBRS Bands 42 and 48 (3.4-3.7 GHz)*

All dimensions are in mm / inches

Issue: 1850

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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**ELECTRICAL SPECIFICATIONS**

Frequency	617-960/1400-2700/3200-3900 MHz
Nominal Impedance	50 Ω
VSWR	3:1(Max)
Radiation Pattern	Omni
Peaking Gain (typical)	1dBi @617-960MHz
Peaking Gain (typical)	2.5 dBi @1400-2700MHz
Peaking Gain (typical)	3 dBi @ 3200-3900MHz
Efficiency (typical)	45% @617-960MHz
Efficiency (typical)	70% @1400-2700MHz
Efficiency (typical)	70% @ 3200-3900MHz
Polarization	Linear-Vertical
Power Withstanding	5W

**MECHANICAL SPECIFICATIONS**

Plastic radome	ABS/PC
Color	Black
Connector Type	SMA-M
Flammability	UL94-V0
Ingress Protection	IP65
Weight	56.8 g
Overall Length	228.84[9.01] mm [INCHES]
Position	0°, 45° & 90°

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## ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-40/+85 ° C
Non-operating temperature range	-40/+85 ° C
Temperature Shock	3 CYCLES, -25°C TO +70°C AT 5° PER MIN
Humidity	
Cyclic	Mil-Std-810 Method 507.3, Procedure III 5 cycles @ 95% RH
Vibration	
Random	5-500 Hz FREQ, MIL STD 810 G section 514.4
Mechanical Shocks	4.78 m/s
Drop test	1 meter, 10 times to tile
RoHS Compliant	Yes

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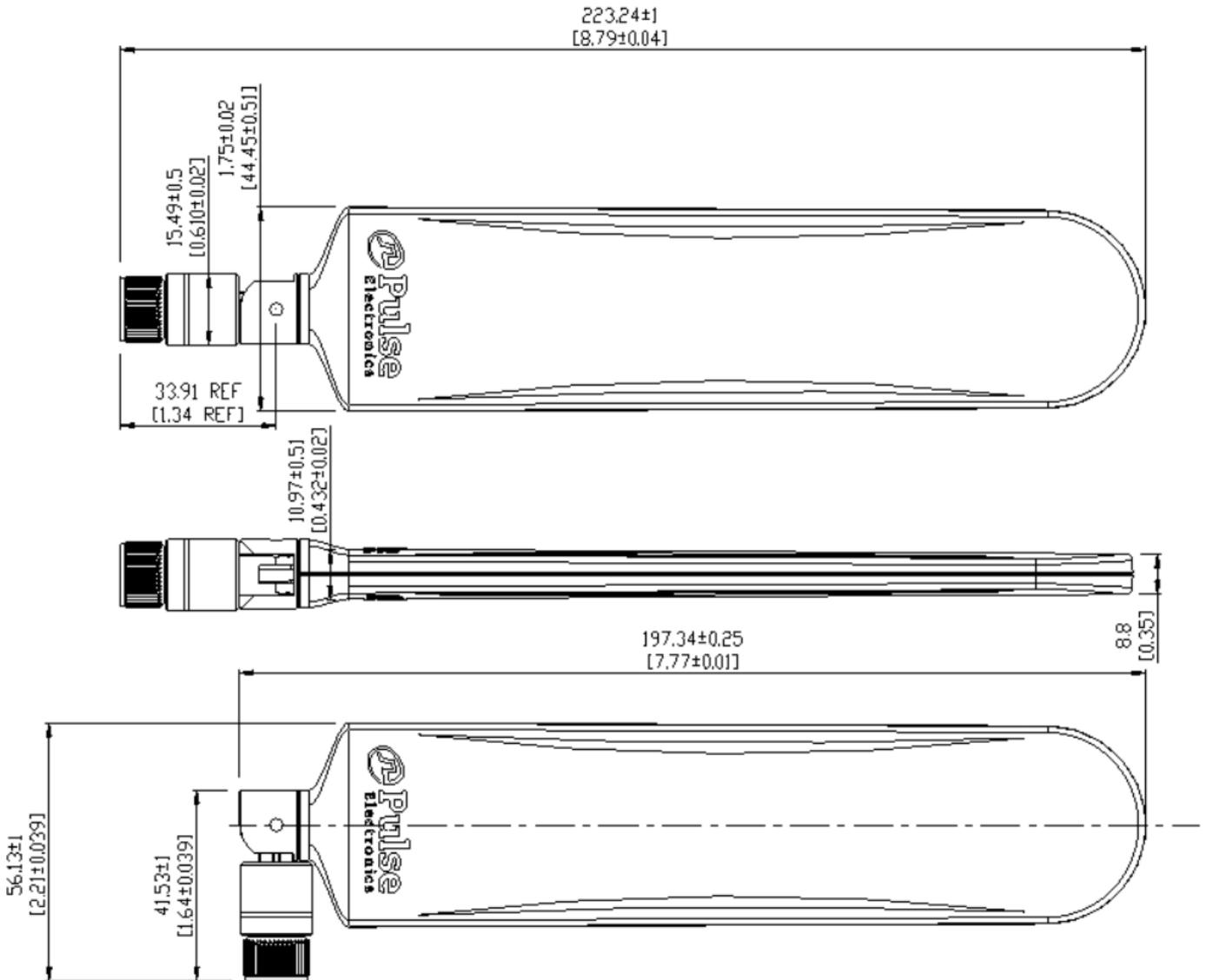
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**MECHANICAL DRAWING**



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## TEST SETUP

Setup1: straight



Setup2: bending-90°



Note: All is test in free space. And the Radiation Pattern 2D is only test in setup1-straight.

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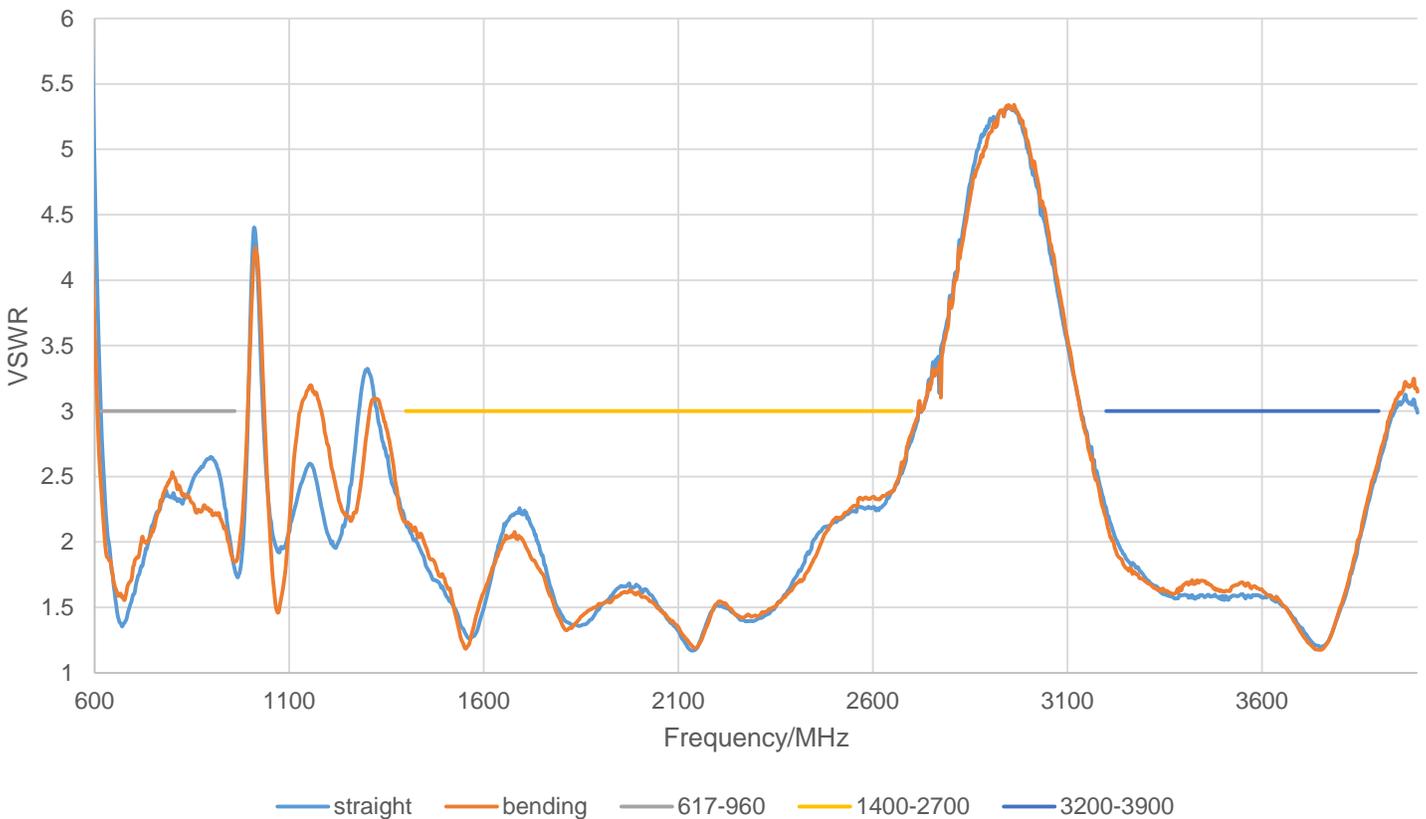
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**CHARTS**

**Voltage Standing-Wave Ratio**

SPDA24617-3900



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**Description:**

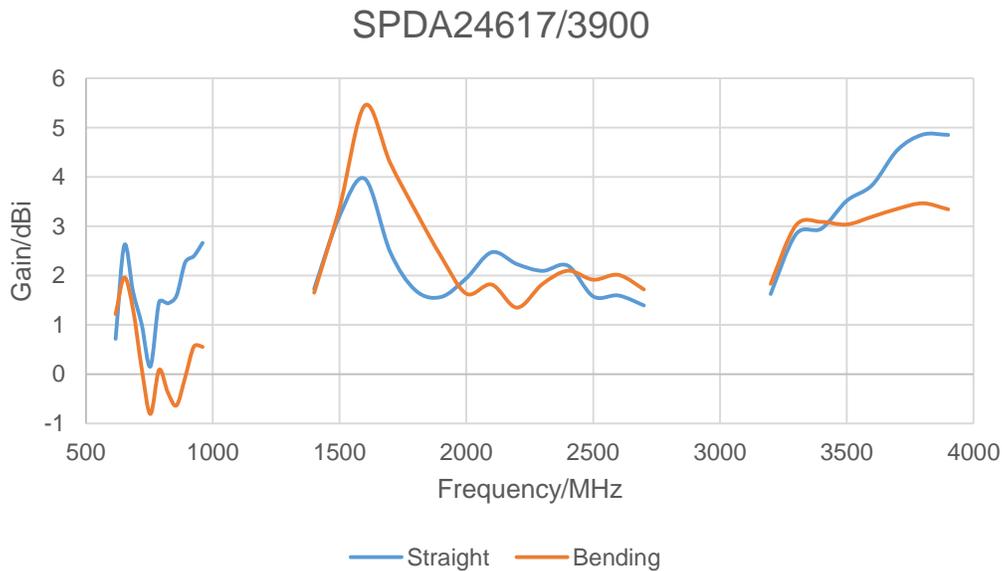
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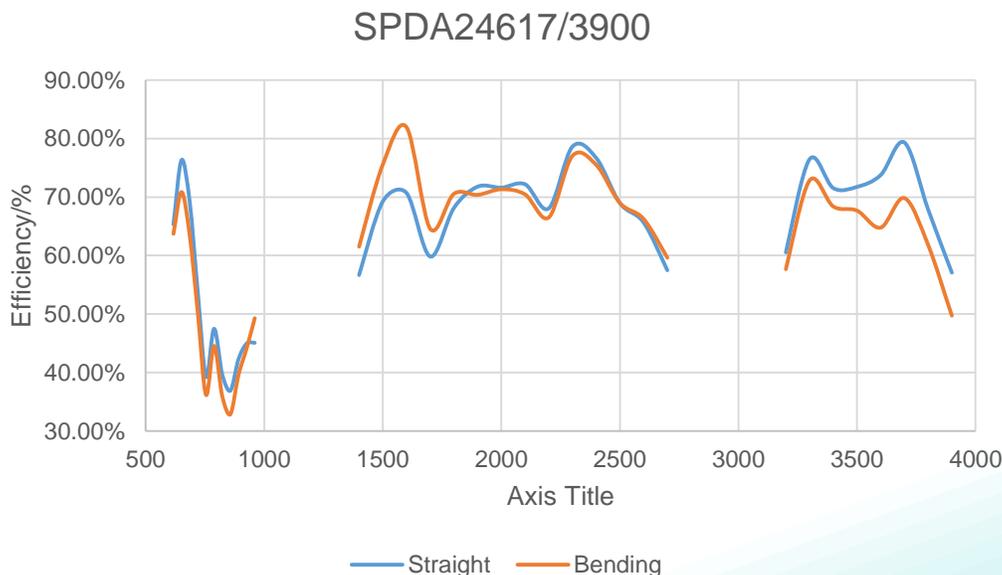
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**CHARTS**

**Peaking Gain**



**Radiation Efficiency**



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Description:

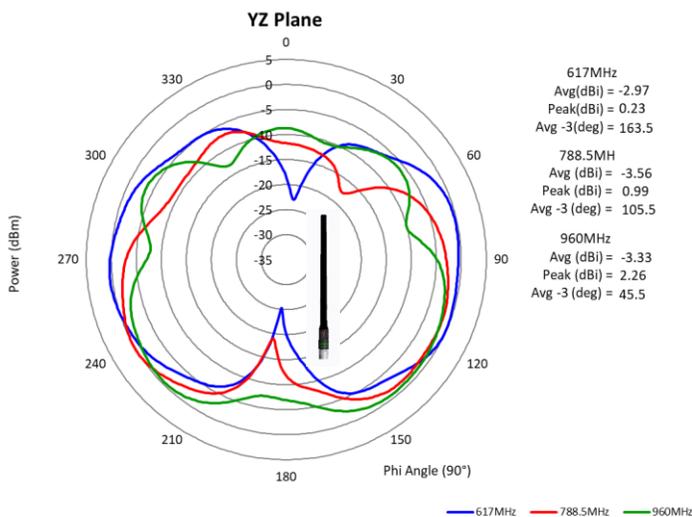
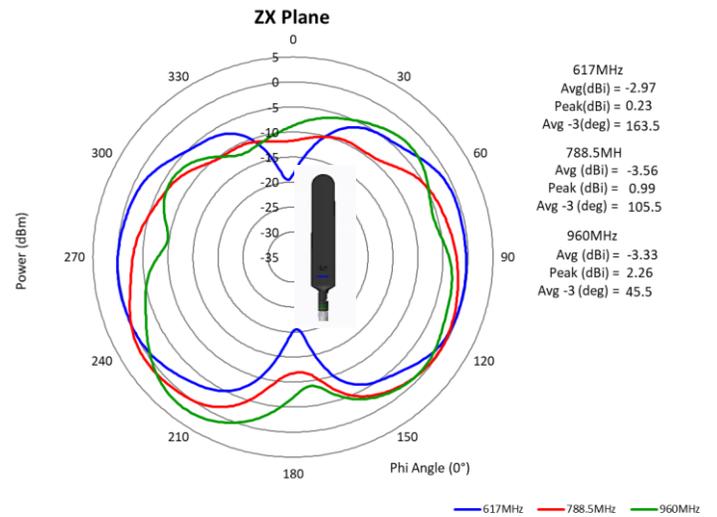
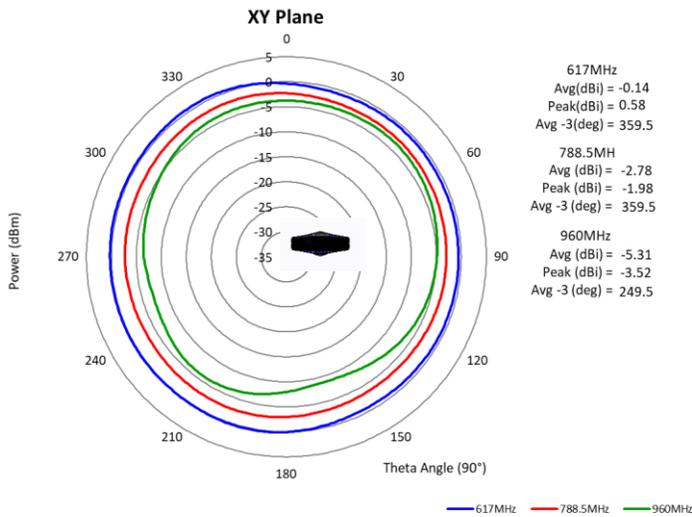
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CHARTS

Radiation Pattern 2D(617-960MHz)



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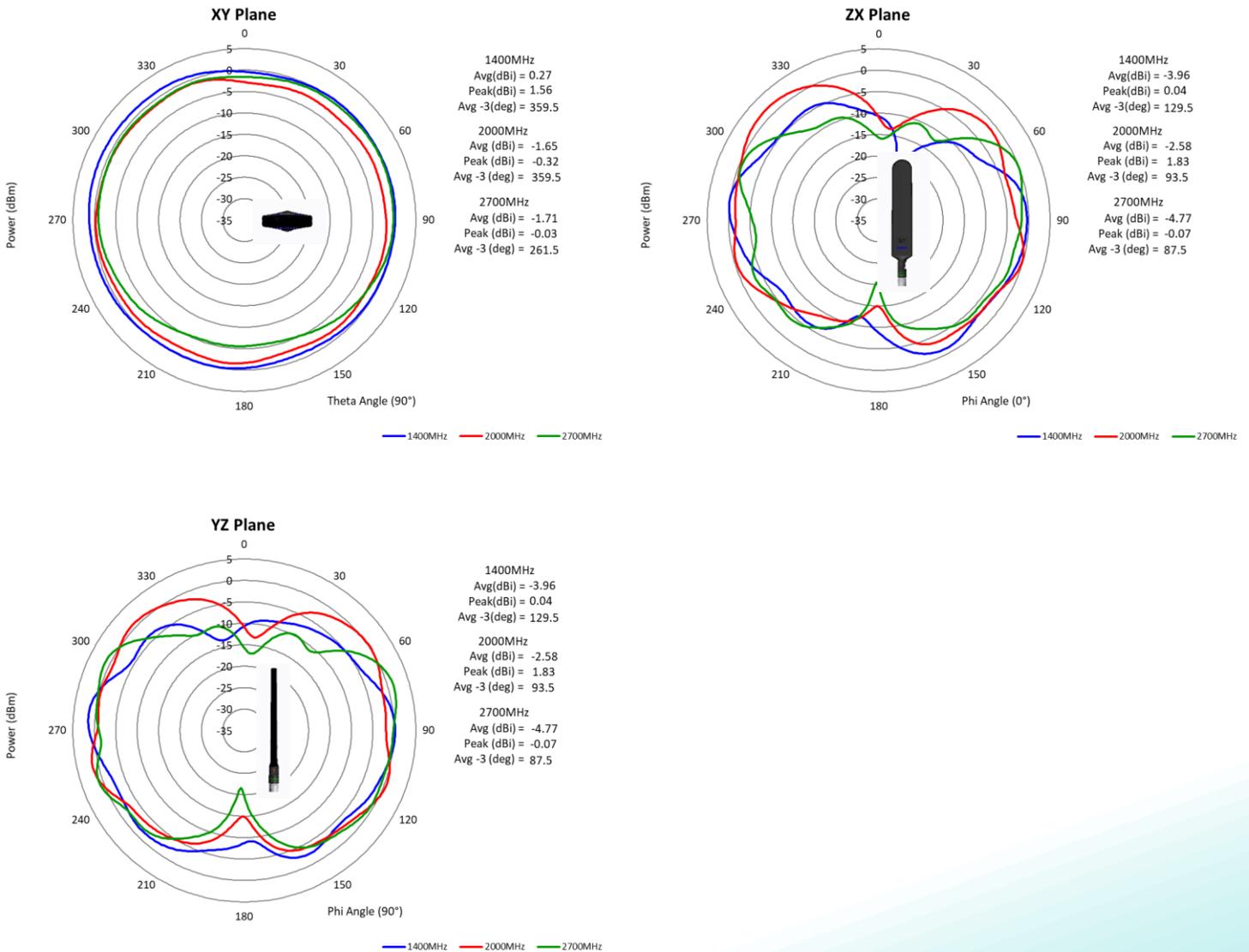
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Radiation Pattern 2D(1400-2700MHz)



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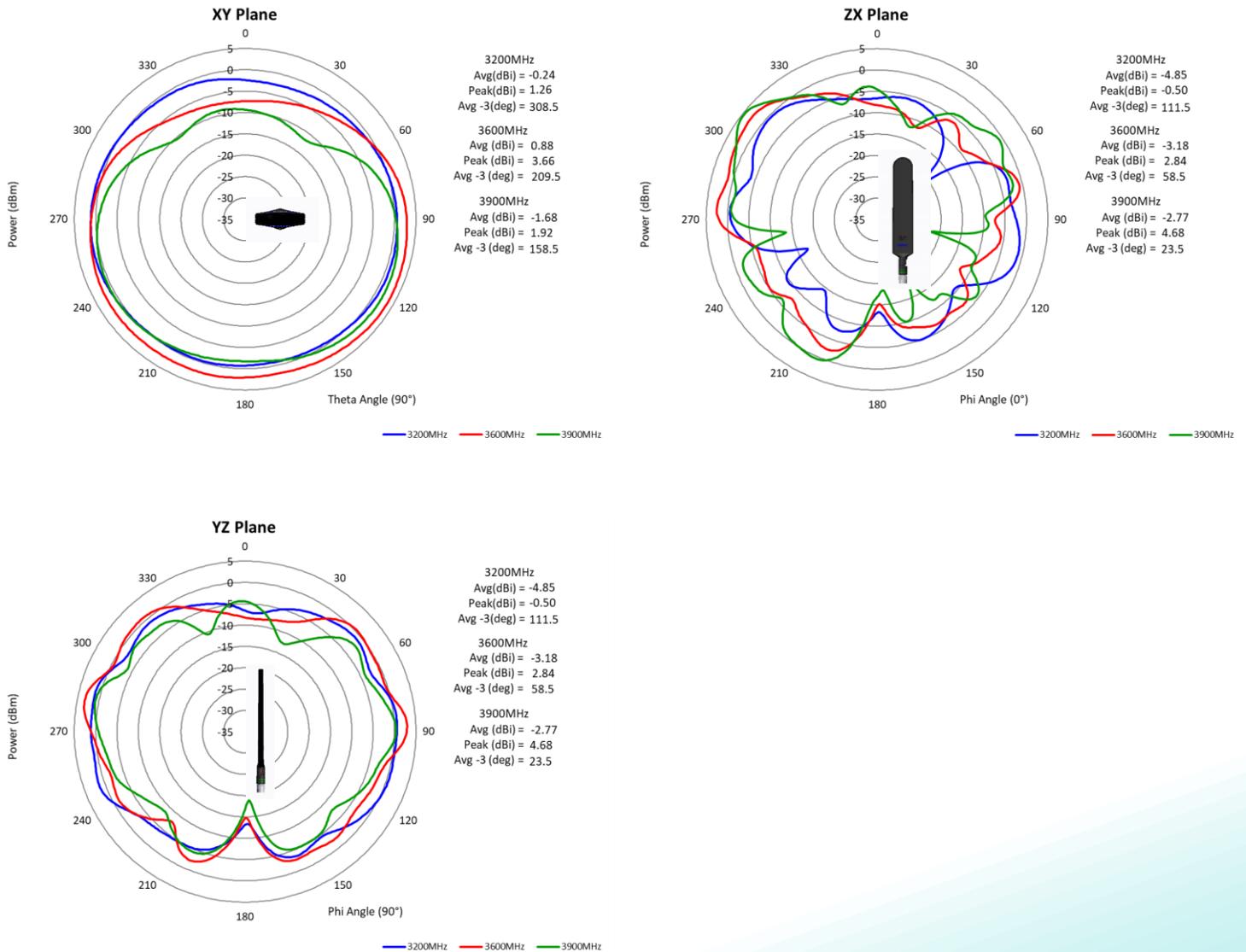
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CHARTS

Radiation Pattern 2D(3200-3900MHz)



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**PACKAGING**

1 PCS/PE bag

100 PCS/Carton box