PulseLARSEN Antennas

TECHNICAL DATA SHEET

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

RoHS COMPLIANT

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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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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RoHS COMPLIANT

PulseLARSEN Antennas

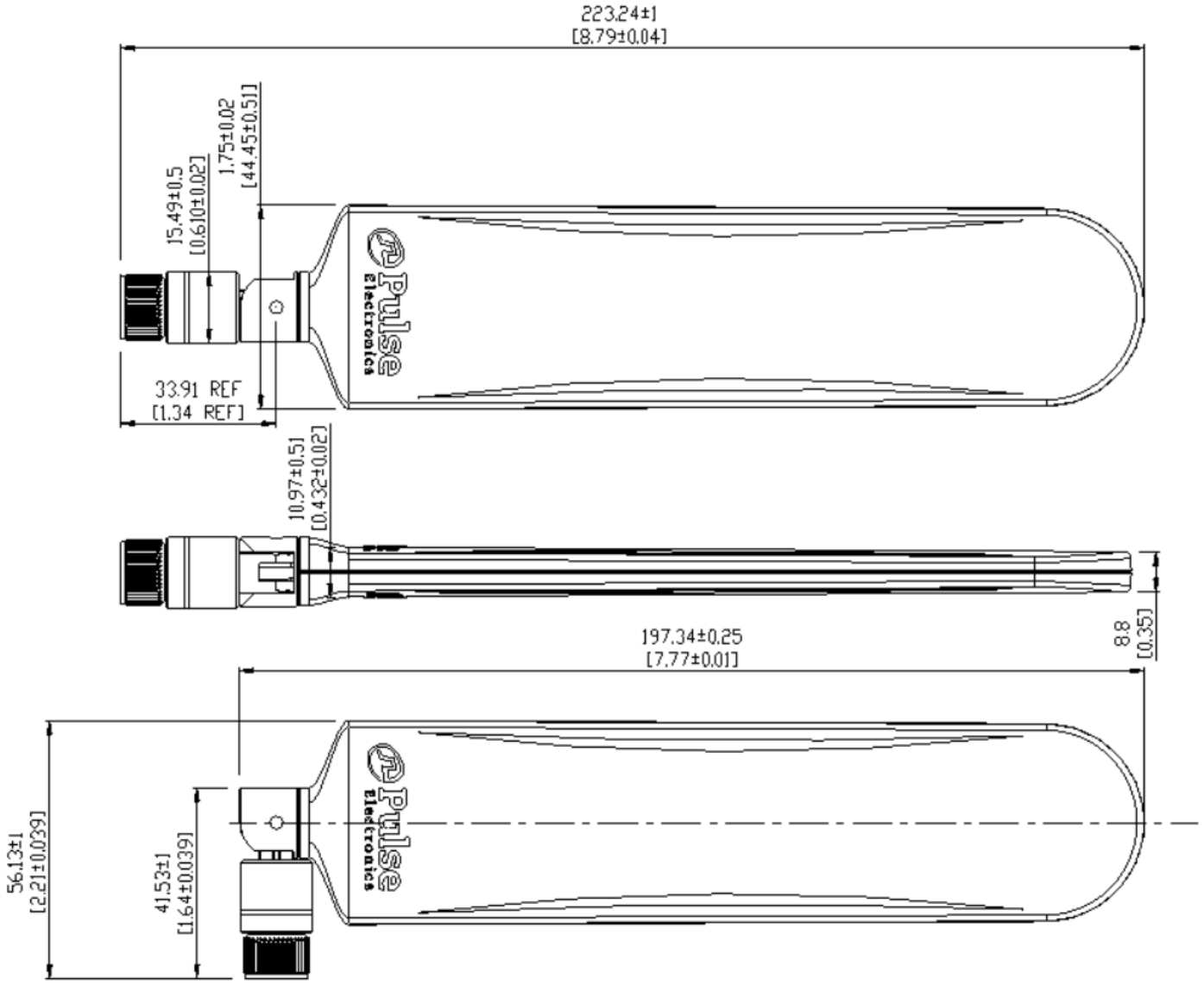
TECHNICAL DATA SHEET

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MECHANICAL DRAWING



Issue: 1850

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TEST SETUP

Setup1: straight



Setup2: bending-90º



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

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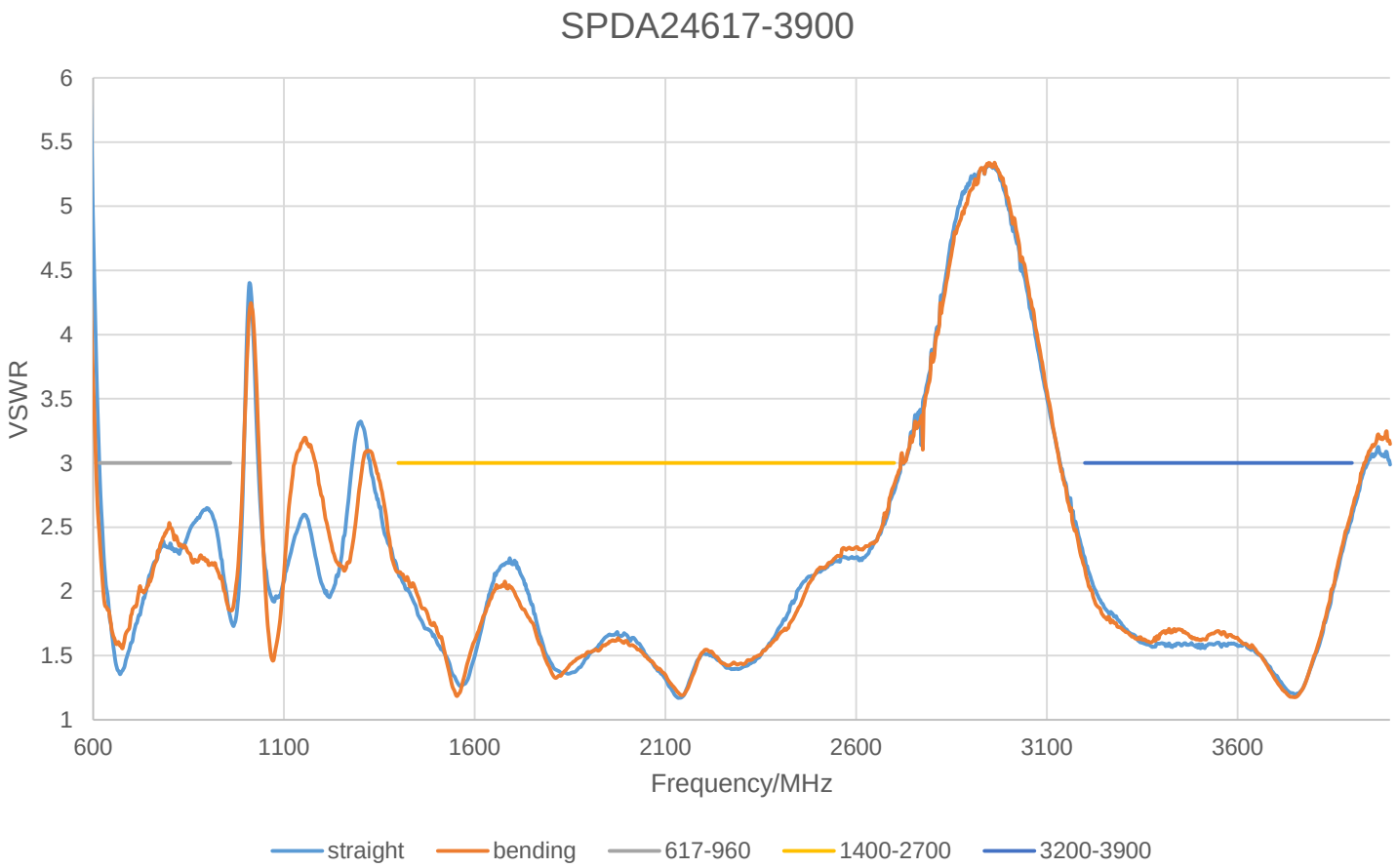
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CHARTS

Voltage Standing-Wave Ratio



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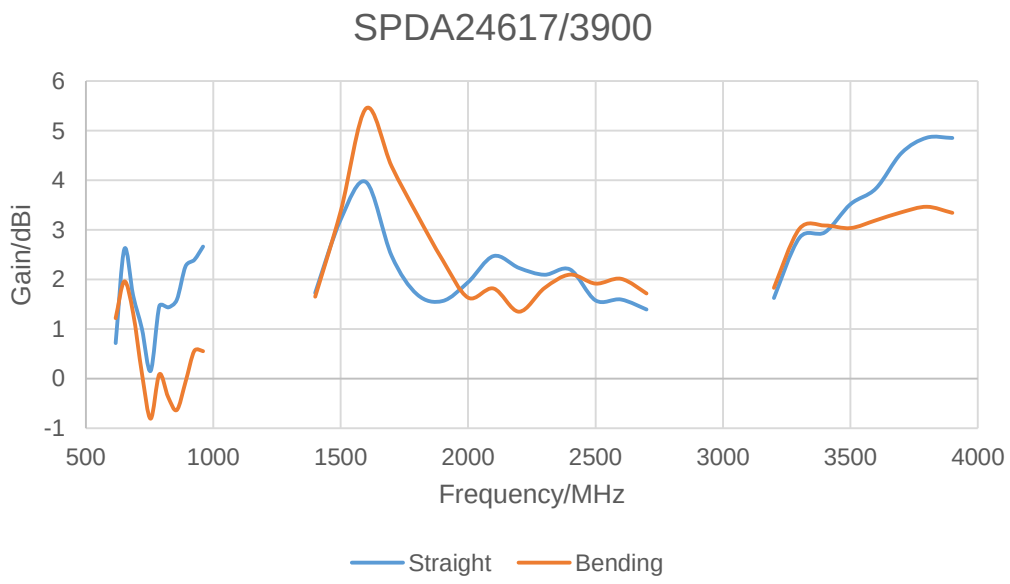
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CHARTS

Peaking Gain



Radiation Efficiency



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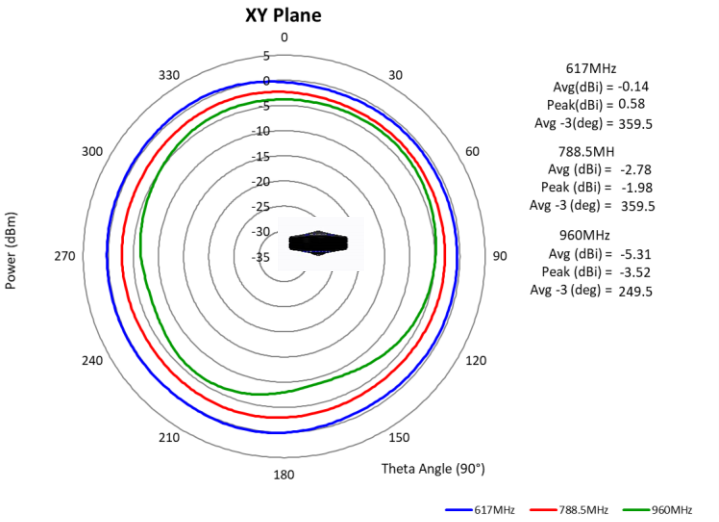
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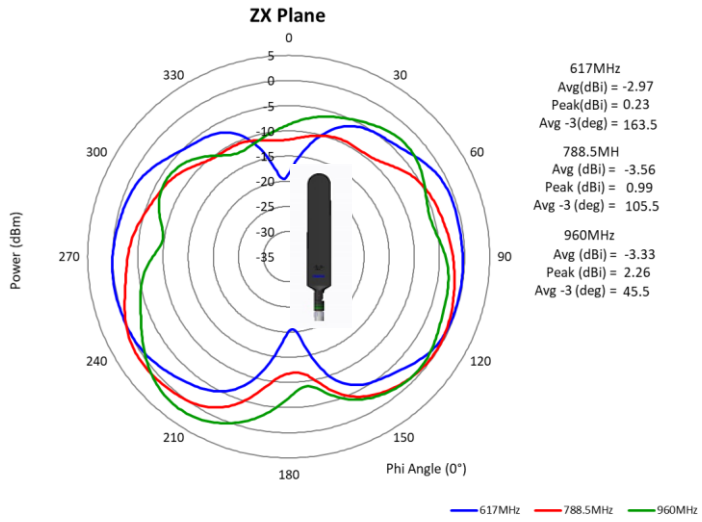
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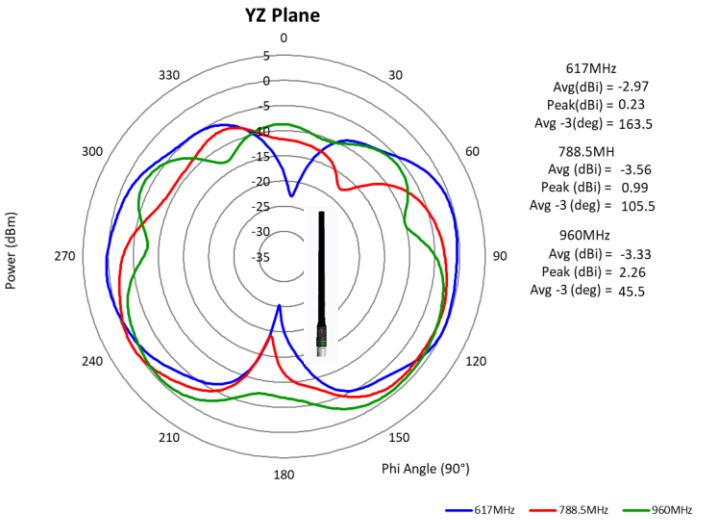
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CHARTS

Radiation Pattern 2D(617-960MHz)







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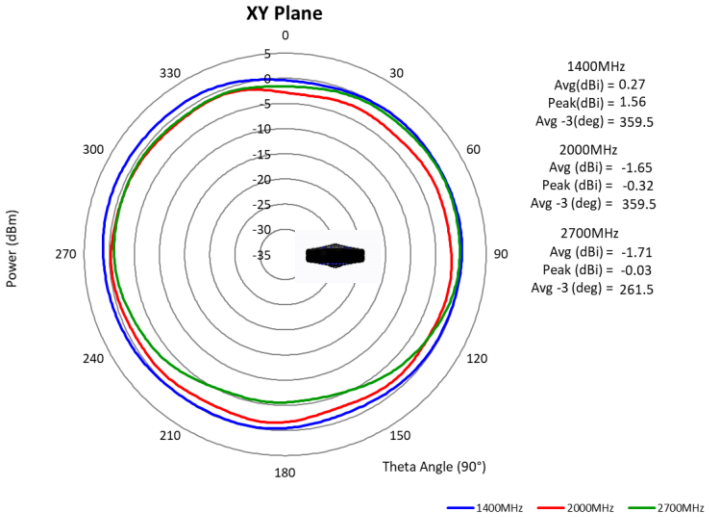
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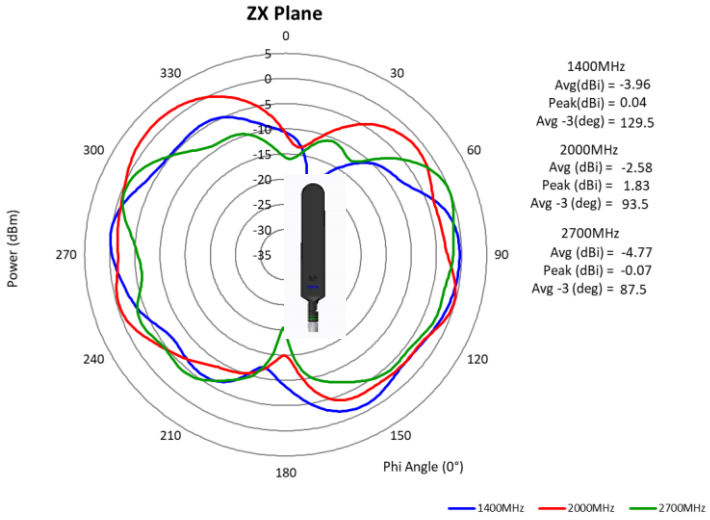
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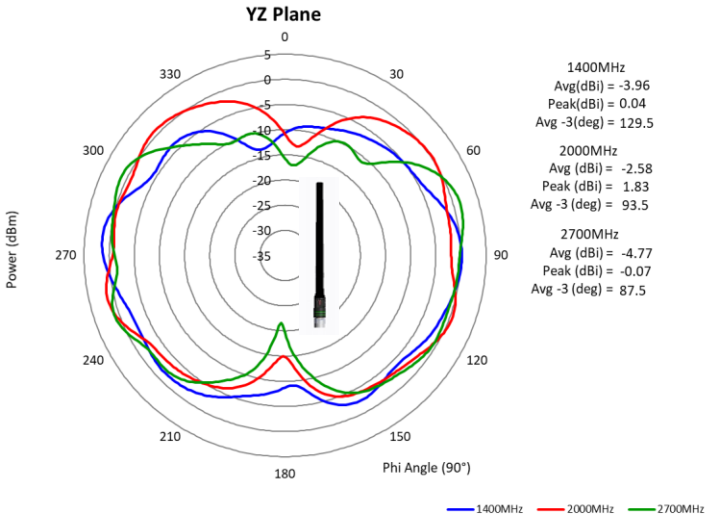
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CHARTS

Radiation Pattern 2D(1400-2700MHz)







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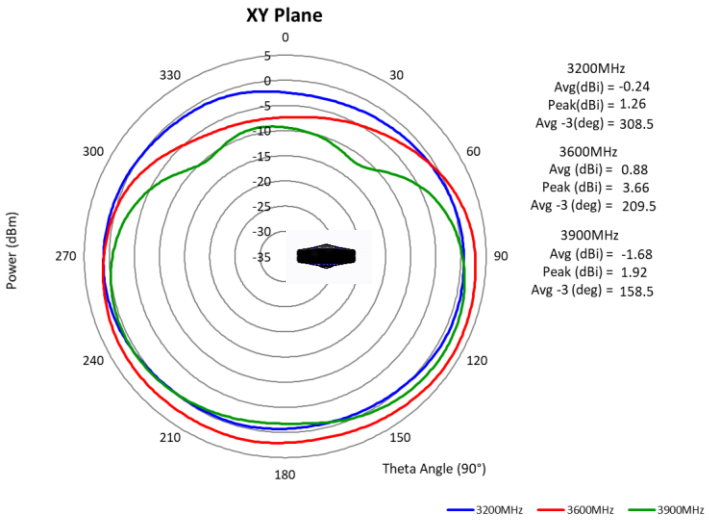
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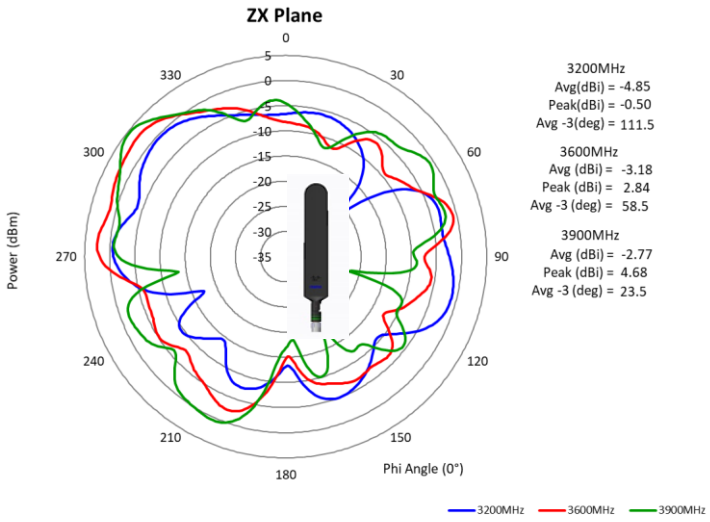
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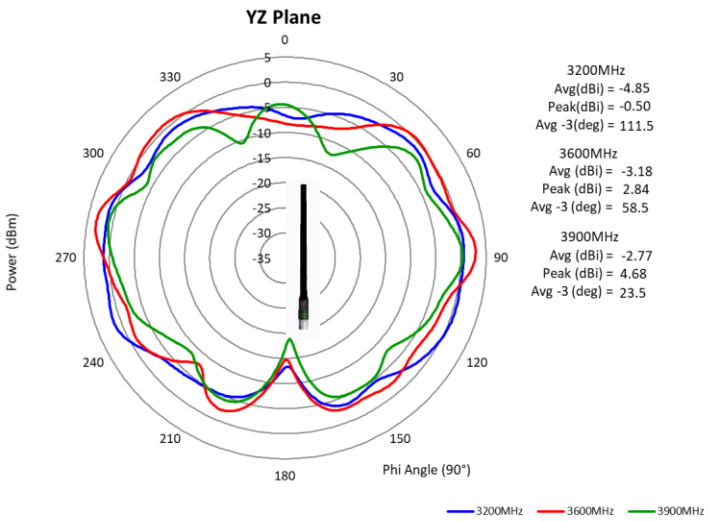
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CHARTS

Radiation Pattern 2D(3200-3900MHz)







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PACKAGING

1 PCS/PE bag
100 PCS/Carton box

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