

Series: LPT Antenna

**Description:** Direct Mount LPT Style  
Antenna 698-2700 MHz, U.FL/SMA(M)

**PART NUMBER: W1978/W1979**

**Features:**

- LTE Monopole antenna
- 698-2700MHz
- Direct mount with coax feed
- Polarization: Vertical
- Pattern: Omni in H-plane
- Gain: 1.4 / 2.7 / 3.5dBi
- IP67
- Height 77.2mm / 3.04 inch

**Applications:**

- LTE Radio systems
- Public Safety
- Metering
- Transportation, logistics
- Vehicular use



W1978

W1979

All dimensions are in mm / inches

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**ELECTRICAL SPECIFICATIONS**

Antenna type	Monopole (All electrical performance measured with antenna centered on 12"x12" ground plane)	
Frequency	698-960/1710-2170/2300-2700	MHz
Nominal Impedance	50	Ω
VSWR(698-960)	2.5:1	Max
VSWR(1710-2700)	2:1	Max
Peak Gain(698-960, typical)	1.4	dBi
Peak Gain(1710-2170, typical)	2.7	dBi
Peak Gain(2300-2700, typical)	3.5	dBi
Efficiency (all band typical)	60	%
Polarization	Vertical	
HPBW Horizontal Plane @0° EL	360	°
HPBW Vertical Plane (698-960)	66	° Avg
HPBW Vertical Plane (1710-2170)	48	° Avg
HPBW Vertical Plane (2300-2700)	43	° Avg
Power withstanding	10	W
Mounting	Direct mount	

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## MECHANICAL SPECIFICATIONS

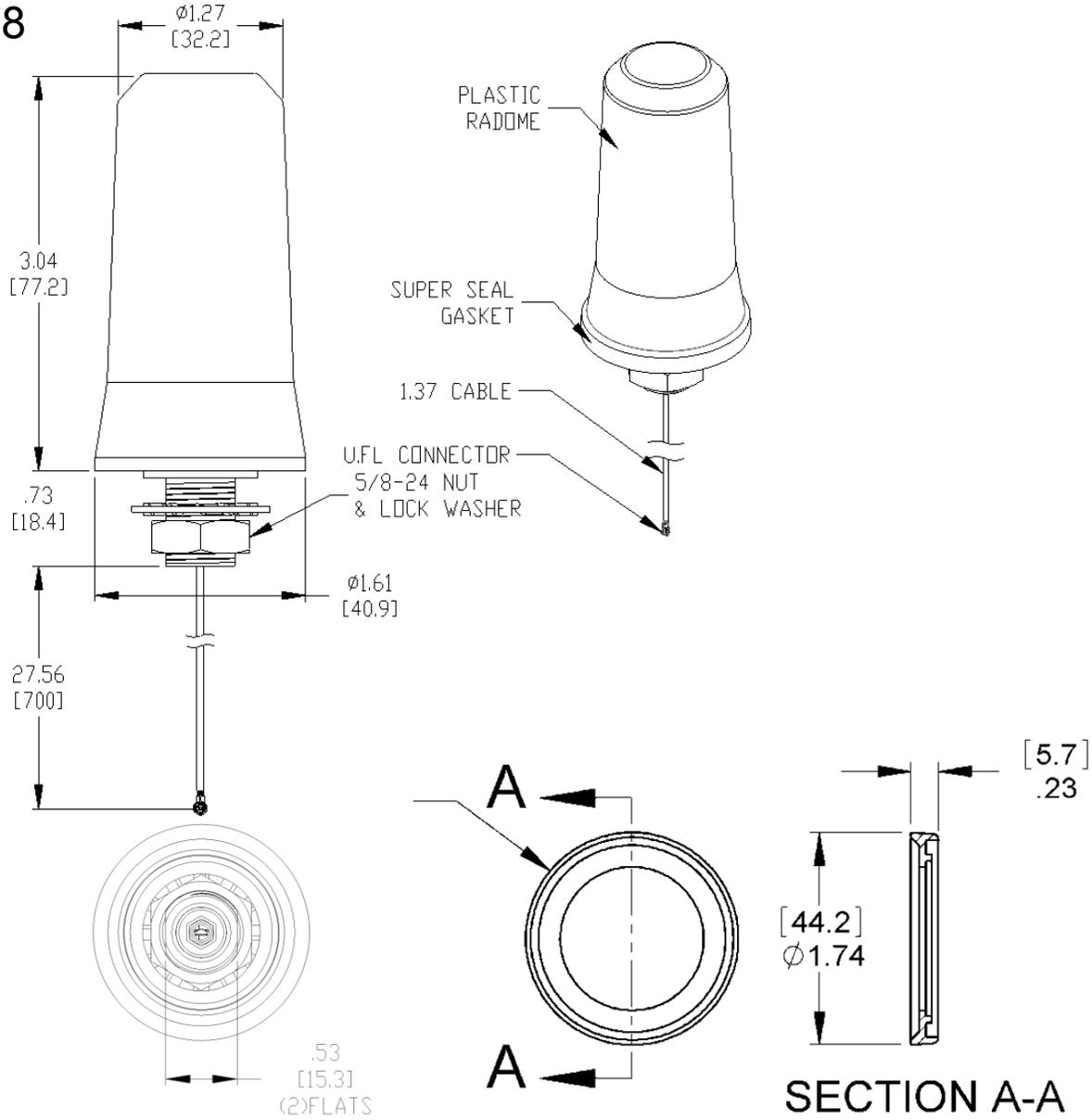
Overall Length with cable	795.6mm
Weight	W1978:98.4g/W1979:117.6g
Antenna Color / Radome Material	Gray/ PC+ Polyester blend
Connector type	W1978:U.FL/W1979:SMA Male)
Cable type	W1978:1.37/W1979: RG174
Cable length	700mm

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40/+85° C
Storage Temperature	-40/+85° C
Ingress Protection	IP67
Wind-loading	165m/h
RoHS Compliant	Yes

**MECHANICAL DRAWING**

W1978



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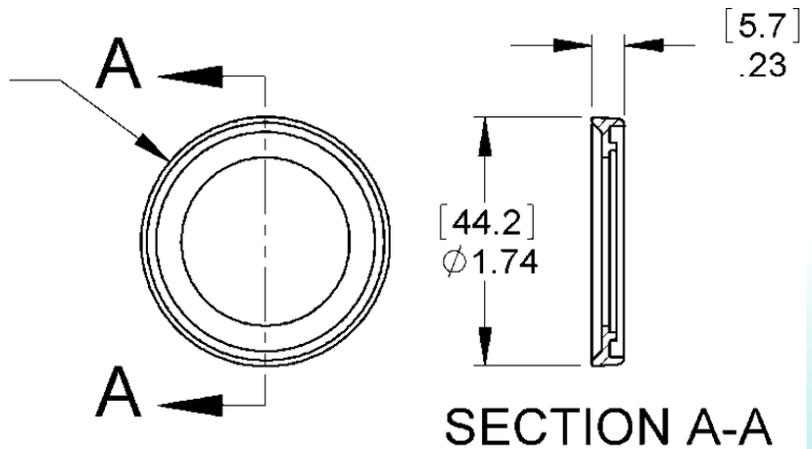
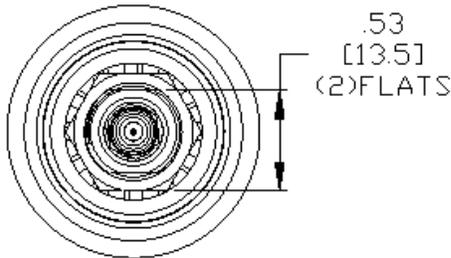
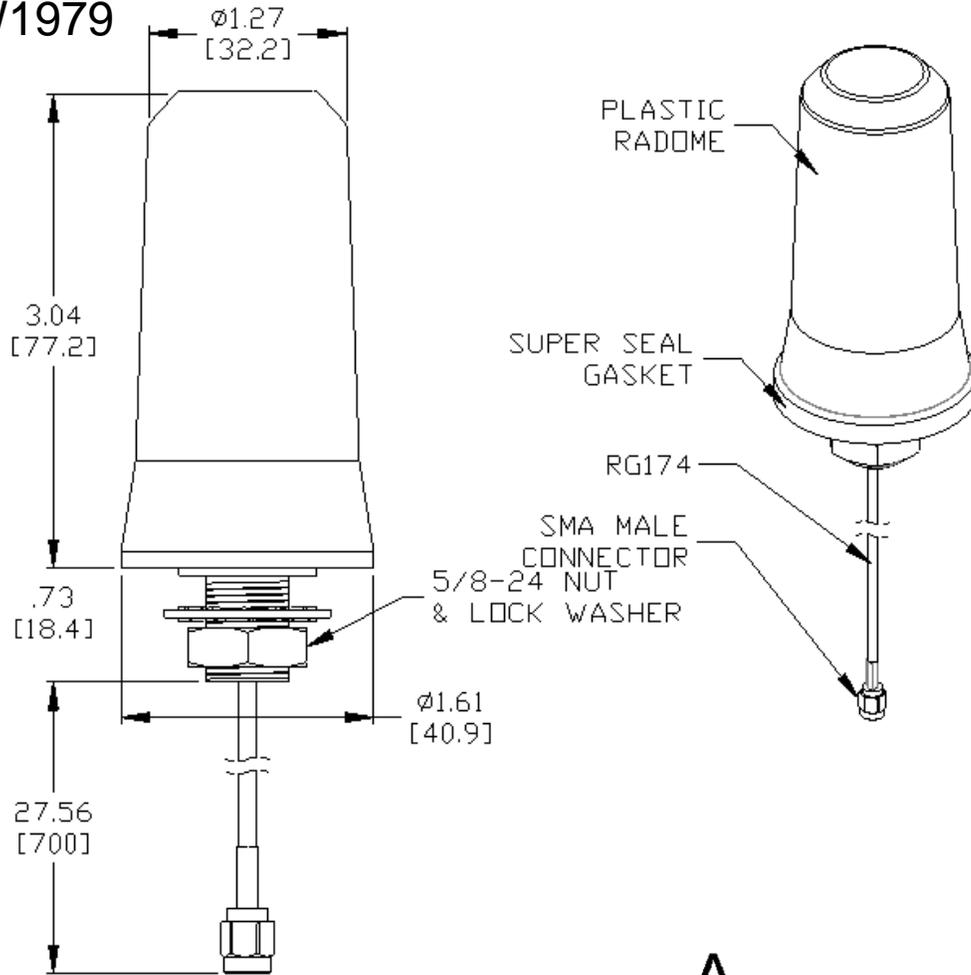
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**MECHANICAL DRAWING**

W1979



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**MECHANICAL DRAWING**

Item	Part Number	Description
1	W1978	Band 698-960/1710-2170/2300-2700 MHz with .7 meter cable assembly with U.FI
2	W1979	Band 698-960/1710-2170/2300-2700 MHz with .7 meter cable assembly with SMA

## TEST SETUP

All electrical performance measured with antenna centered on  
12"x12" ground plane

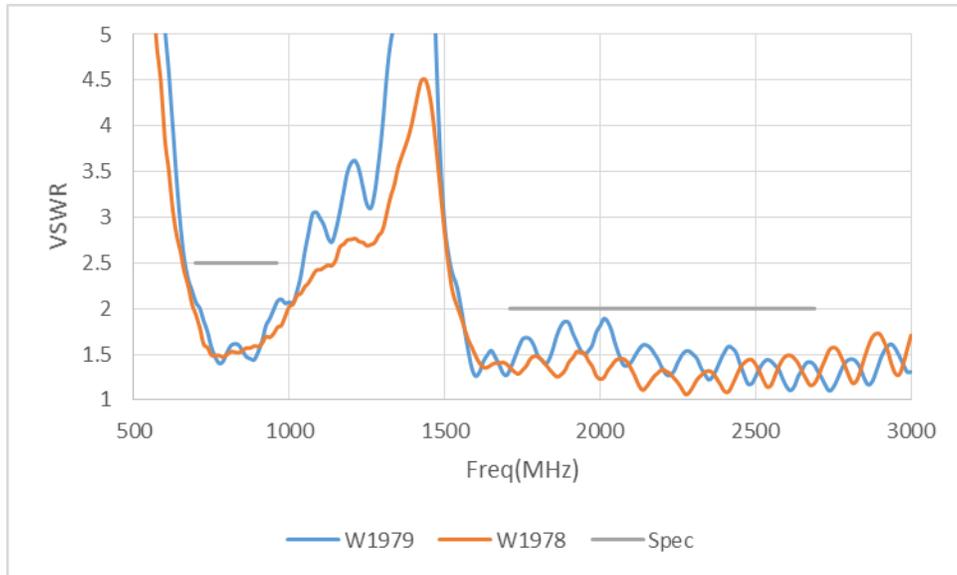
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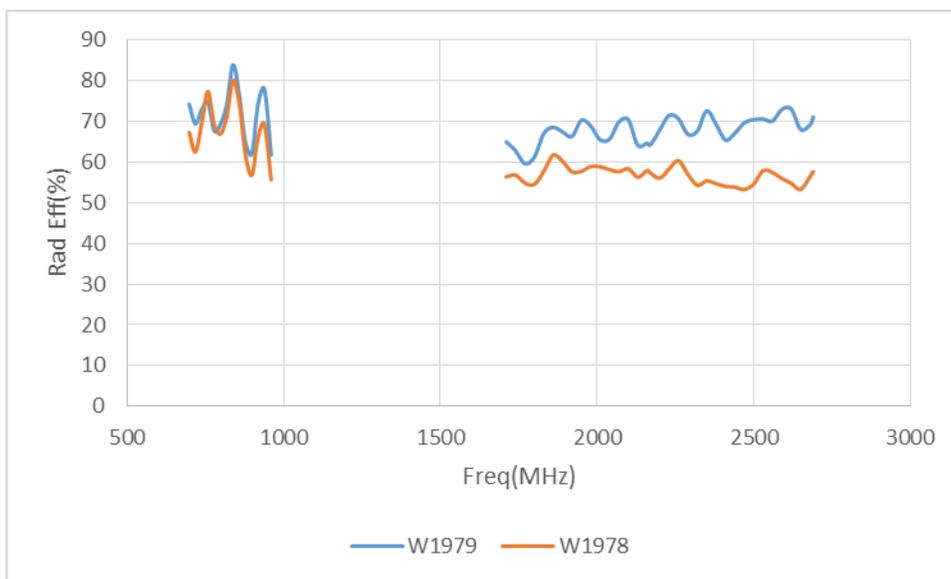
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CHARTS

VSWR



Radiation Efficiency



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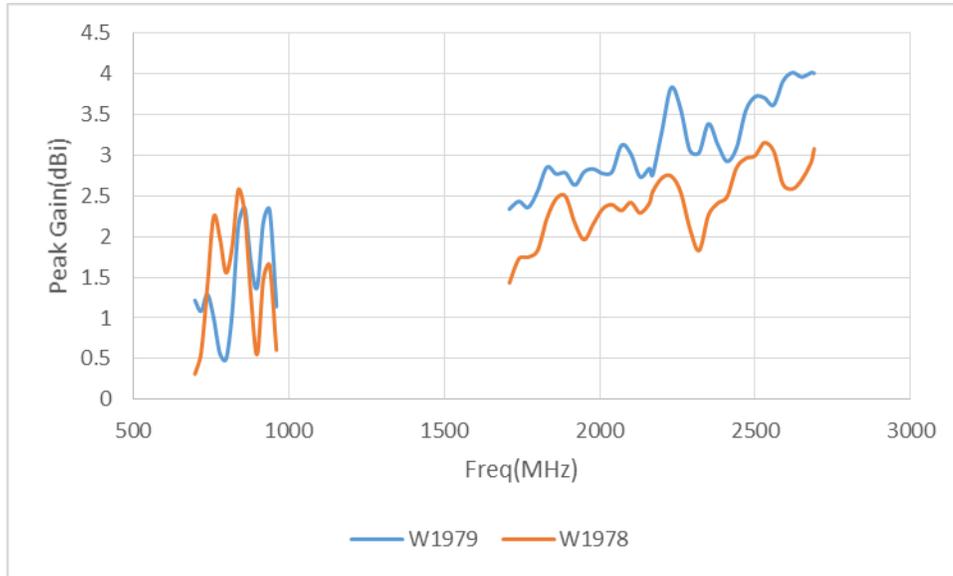
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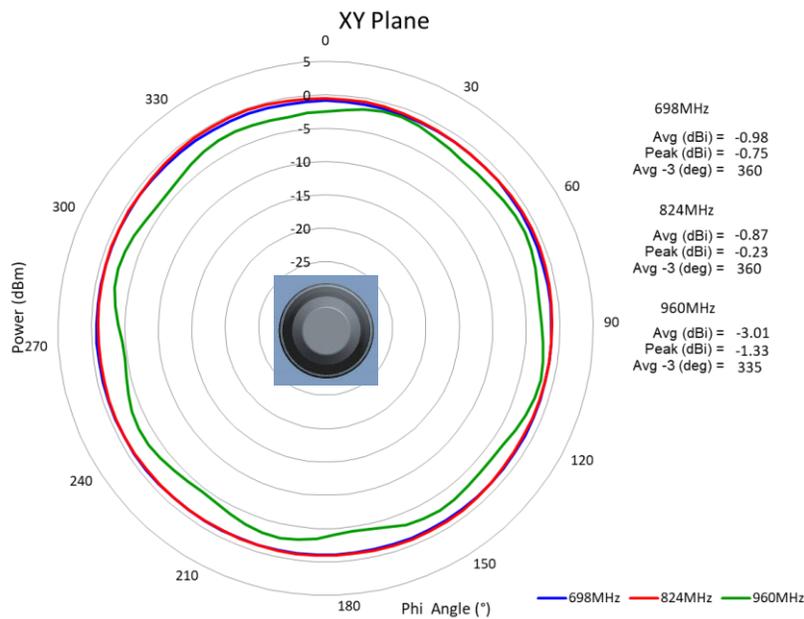
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**CHARTS**

**Peak Gain**



**Horizontal Plane radiation pattern at low band**



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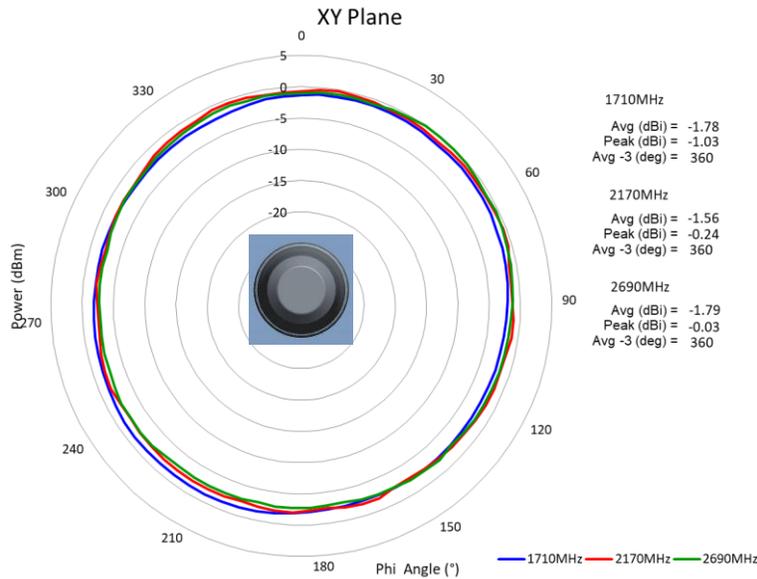
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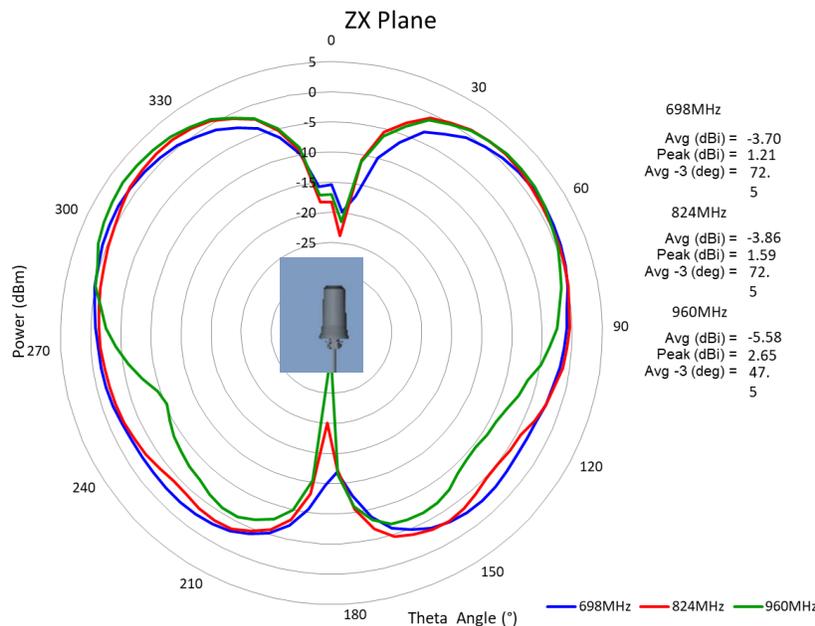
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**CHARTS**

**Horizontal Plane radiation pattern at high band**



**Vertical Plane radiation pattern at low band**



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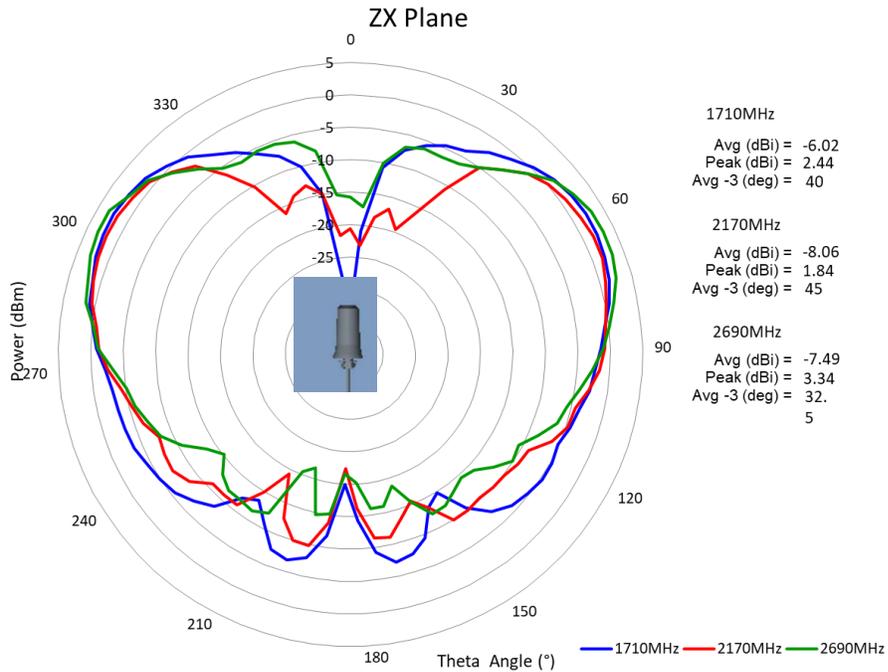
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**CHARTS**

Vertical Plane radiation pattern at high band



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## PACKAGING

4pcs antenna per separated region, 6 separated regions per layer.  
Total 2 layers contain 48pcs antenna per box