

### **TECHNICAL DATA SHEET**

**Description**: Direct Mount LPT Style

Antenna 698-2700 MHz, U.FL/SMA(M)

**PART NUMBER: W1978/W1979** 



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

All dimensions are in mm / inches

Issue: 1729

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

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# **ELECTRICAL SPECIFICATIONS**

Antenna type	Monopole (All electrical performance measured		
	with antenna centered on 12"x12" gi	red 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	0	
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





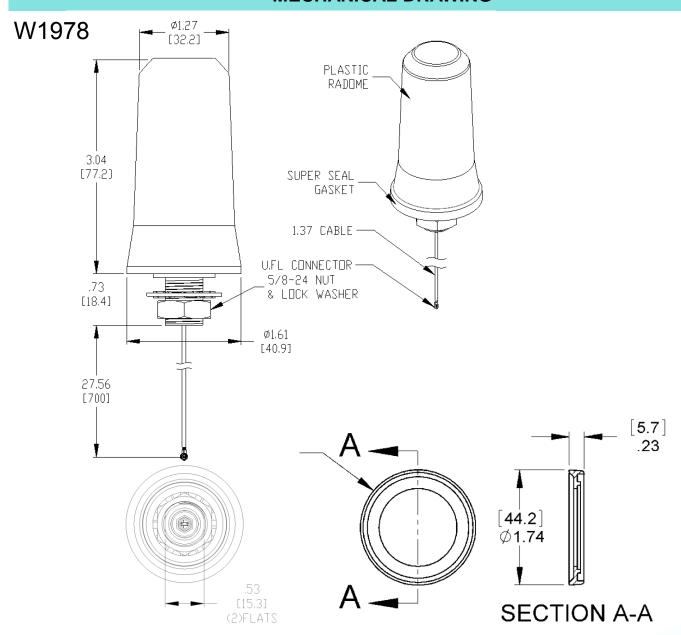
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## **MECHANICAL DRAWING**







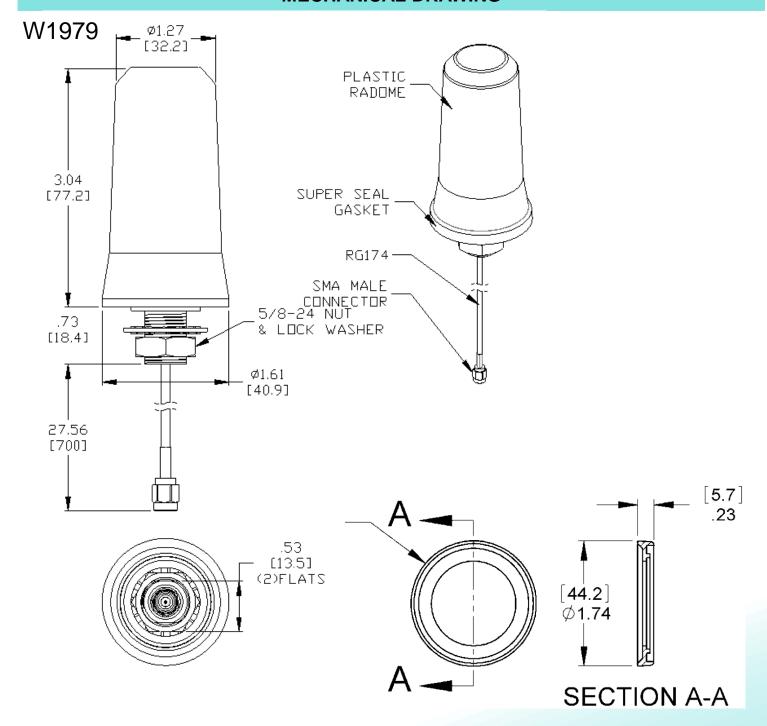
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## **MECHANICAL DRAWING**









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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



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## **TEST SETUP**

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



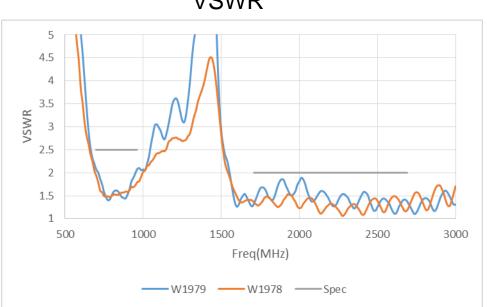
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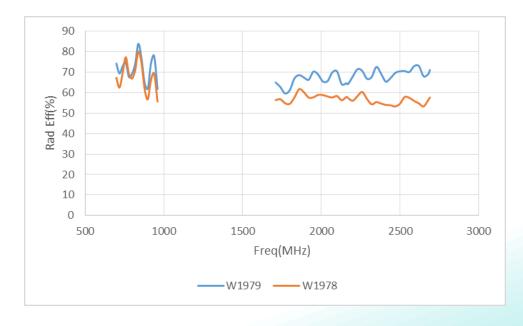
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## **CHARTS**

# **VSWR**



# Radiation Efficiency









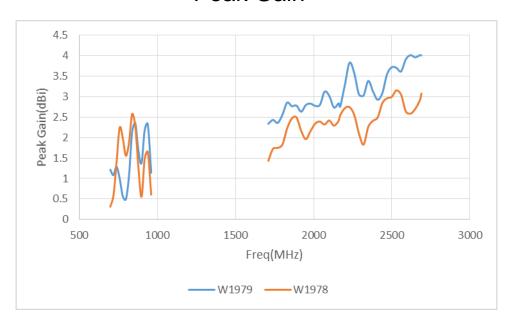
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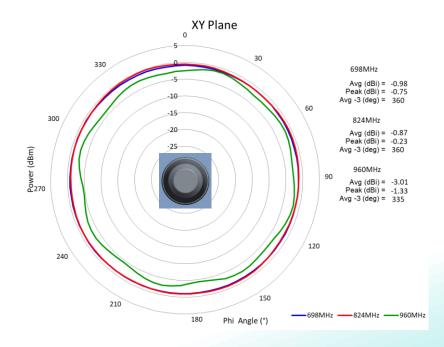
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## **CHARTS**

# Peak Gain



# Horizontal Plane radiation pattern at low band



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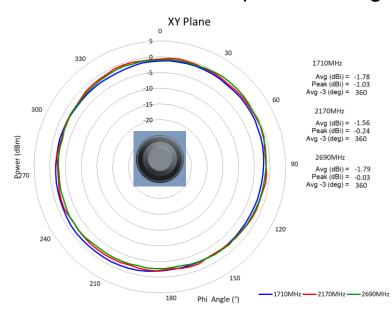
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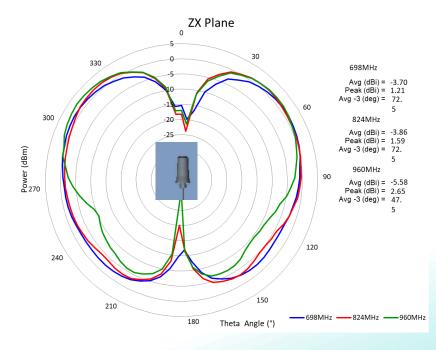
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## **CHARTS**

# Horizontal Plane radiation pattern at high band



# Vertical Plane radiation pattern at low band



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## **CHARTS**

# Vertical Plane radiation pattern at high band

