

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: 2150

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" gr	ound 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	%
olarization 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





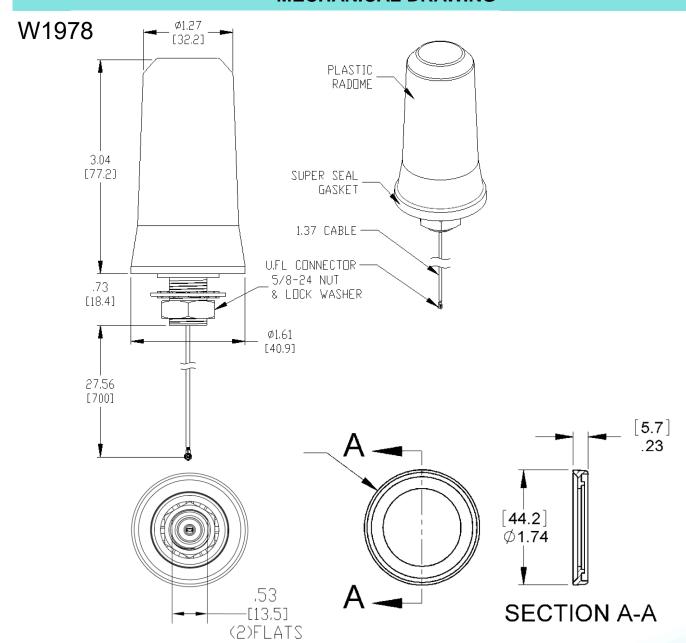
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MECHANICAL DRAWING







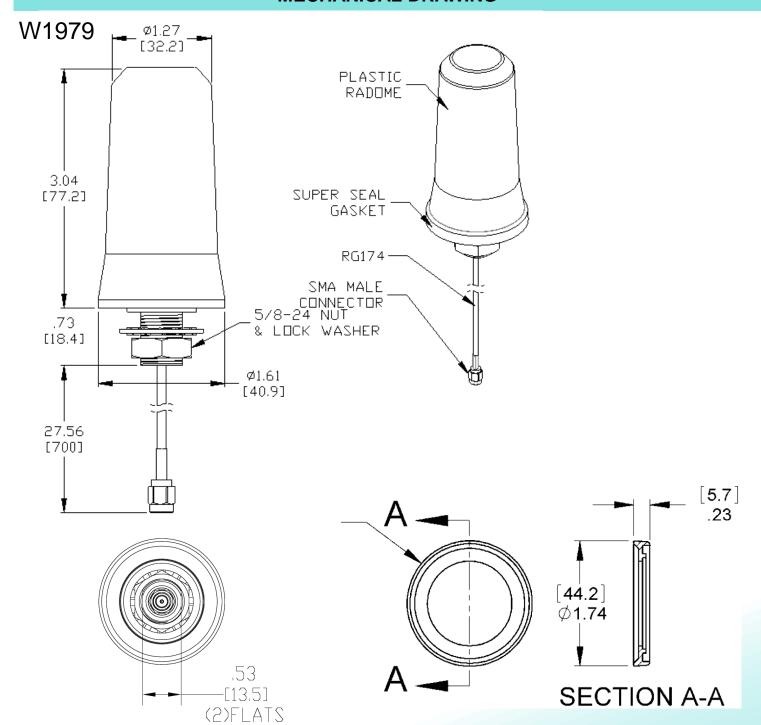
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MECHANICAL DRAWING

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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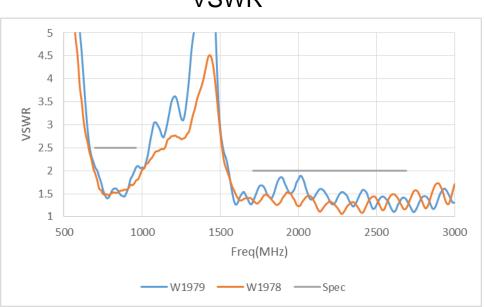
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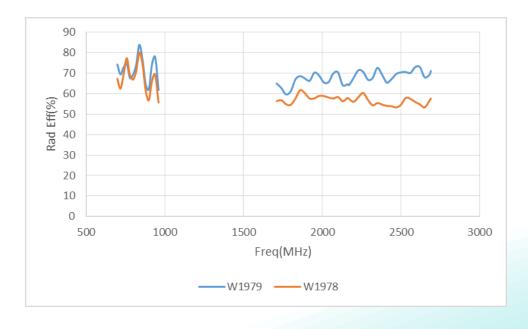
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CHARTS

VSWR



Radiation Efficiency



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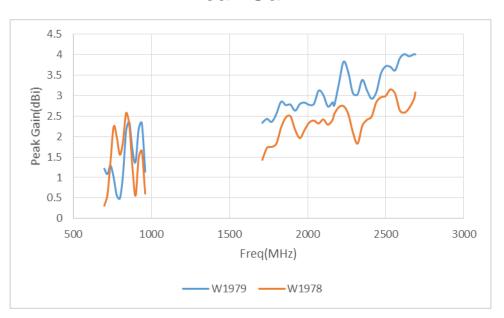
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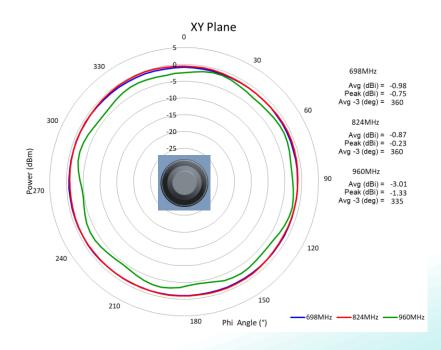
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CHARTS

Peak Gain



Horizontal Plane radiation pattern at low band









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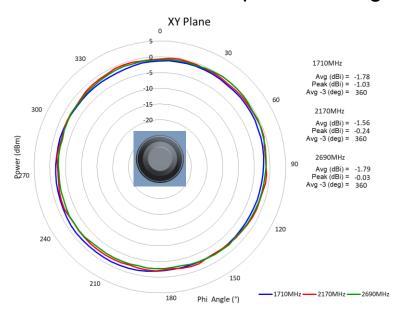
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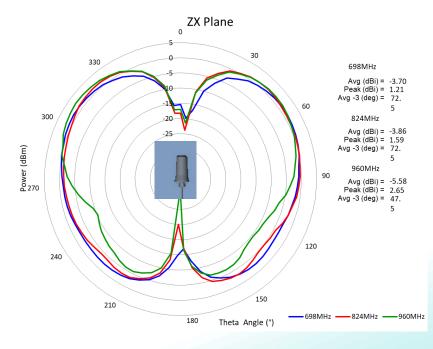
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CHARTS

Horizontal Plane radiation pattern at high band



Vertical Plane radiation pattern at low band



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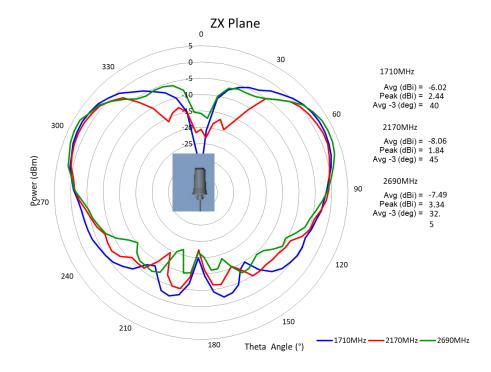
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CHARTS

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