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PAV69278PO/PAV69278PI

LTE Vertical Low PIM Directional Panel Antenna

698-960 MHz/1710-2700 MHz



LTE MULTIBAND LOW PIM DIRECTIONAL PANEL ANTENNA

The PAV69278PO/PAV69278PI are low PIM, multiband, high gain directional panel antennas with vertical polarization that covers the 698-960 MHz/1710-2700 MHz, LTE700/Cellular/PCS/AWS/MDS and global GSM900/GSM1800/UMTS/LTE2600 bands. The radiation patterns are uniform and symmetrical, providing high-level signal density into defined coverage zones. These antennas greatly enhance the performance of LTE systems and are ideal for outdoor/indoor applications. They include all mounting brackets, anchors, and bolts. The antennas can also be mast mounted with bracket adapter and clamps.

FEATURES

- Performance optimized using Laird proprietary RF optimization tools.
- Low PIM performance minimizes interference and improves in-building wireless network coverage and capacity.
- Mounted with standard bracket or mast-mounted with bracket adapter and clamps.
- Multiple connector and coax options available.
- The PAV69278PO is IP67-rated for dust, dirt, and water ingress.

APPLICATIONS

- In-building or outdoor wireless networks
- Wireless Terminal, Point-of-Sale, and Machine-to-Machine
- Automatic meter reading
- Commercial and industrial security

PARAMETER	PERFORMANCE								
Frequency Bands, MHz	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700	
Peak Gain, dBi (Typ)	7.0	7.6	7.6	8.3	8.7	8.2	8.4	7.1	
Peak Gain, dBi (Max)	7.6	7.8	7.8	8.8	8.8	8.8	8.7	7.8	
VSWR, Typ	<1.8:1	<1.7:1	<1.7:1	<1.8:1	<1.7:1	<1.9:1	<1.7:1	<1.5:1	
VSWR, Max	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	
PIM, 3rd Order, 2 x 20W (Typ)	<-150 dBc					<-153 dBc			
PIM, 3rd Order, 2 x 20W (Max)	<-150 dBc					<-150 dBc			
Nominal Impedance	50 Ω								
Polarization	Vertical								
Frequency (MHz)	698-960/1710-2700 MHz								
Azimuth 3 dB Beamwidth	75°/63°								
Elevation 3 dB Beamwidth	64°/51°								
Front-to-Back Ratio	10 dB/25 dB								
Max Power (Ambient 25° C)	50 Watts								
Antenna Dimension (H x Dia)	249.4 x 248.5 x 61.3 mm (9.82" x 9.8" x 2.41")								
Weight	0.62 kg (1.35 lbs)								
Antenna Color	White								
Radome (PAV69278PO/PAV69278PI)	Luran ASA/Toyolac ABS, UV Stable, UL 94-HB Material								
Wind Operational	160 km/h (100 mph)								
Wind Survival	220 km/h (136 mph)								
Operating Temperature	-40° C to +70° C								
Storage Temperature	-40° C to +85° C								
Ingression Protection (PAV69278PO)	IP67								
Material Substance Compliance	RoHS								

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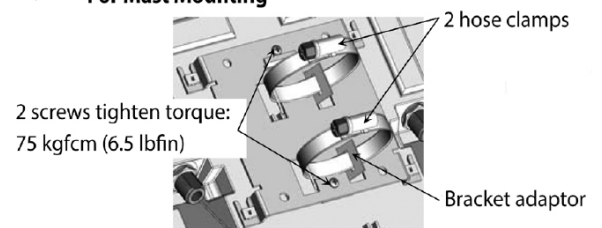
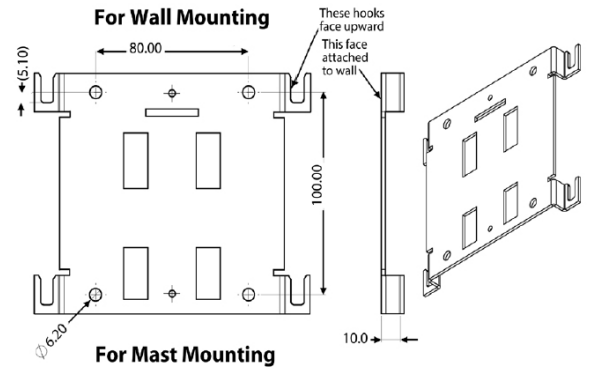
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CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
PAV69278PO-30NF	30 cm (12")	Type N-female
PAV69278PO-30D43F	30 cm (12")	4.3-10 female
PAV69278PO-FNF	N/A	Fixed N-female
PAV69278PI-FNF	N/A	Type N-female
PAV69278PI-30NF	30 cm (12")	Type N-female
PAV69278PI-30D41F	30 cm (12")	4.1-9.5 female
PAV69278PI-30D43F	30 cm (12")	4.3-10 female

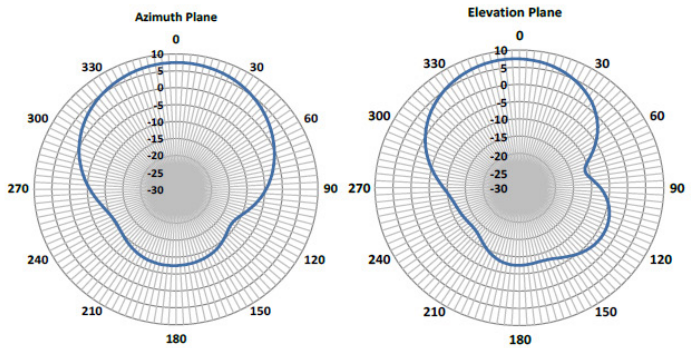
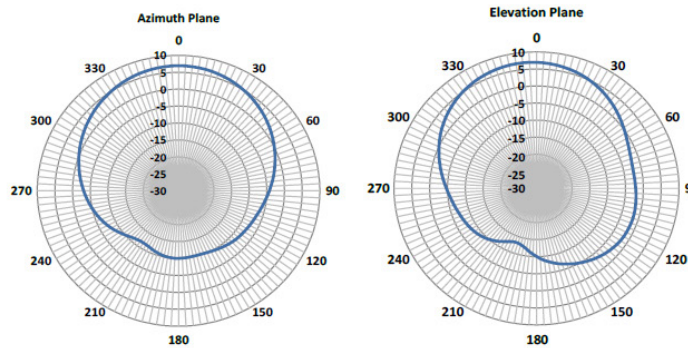
MOUNTING



RADIATION PATTERNS

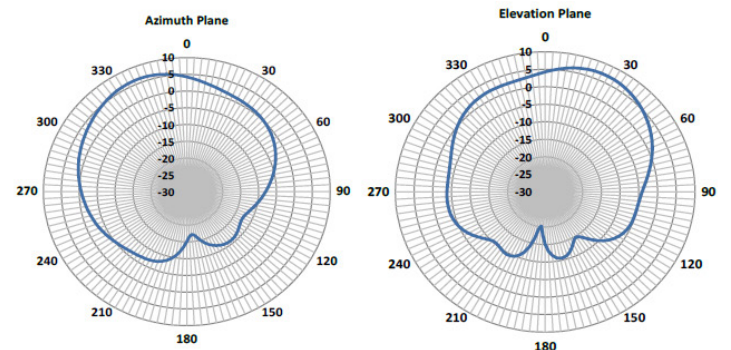
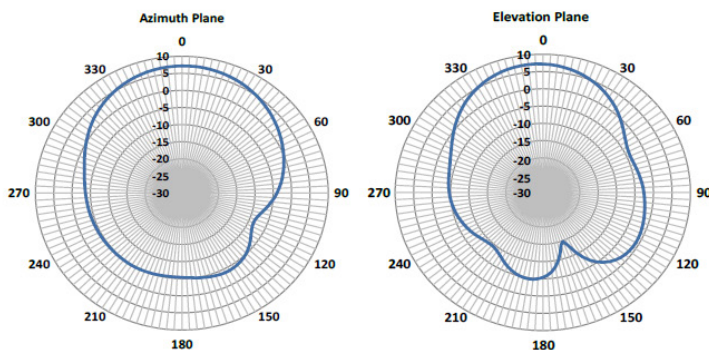
Radiation Pattern at 698 MHz

Radiation Pattern at 824 MHz



Radiation Pattern at 960 MHz

Radiation Pattern at 1710 MHz





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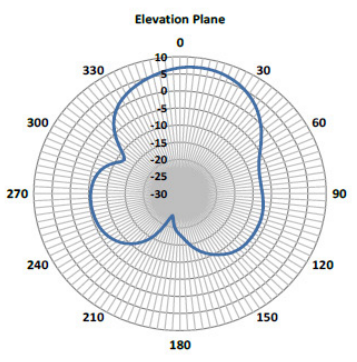
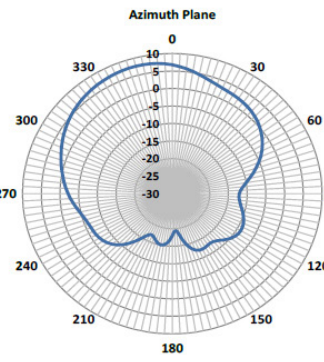
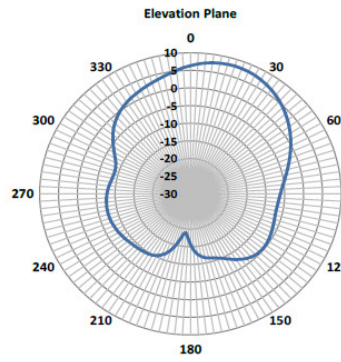
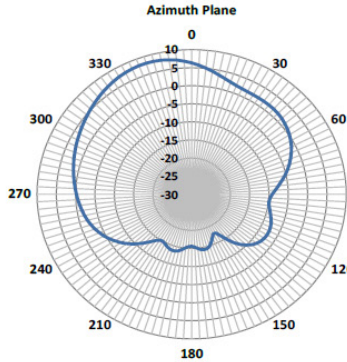
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- S1 fixed
- S5 pigtail

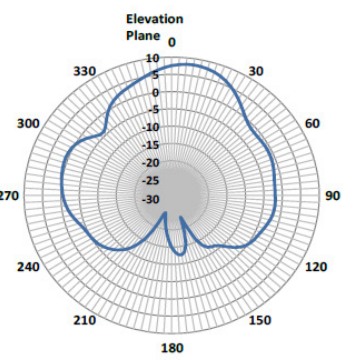
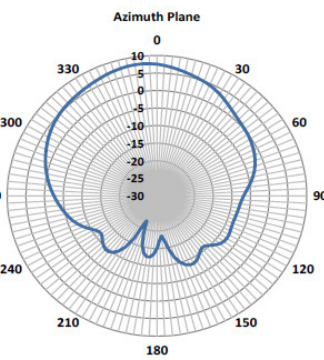
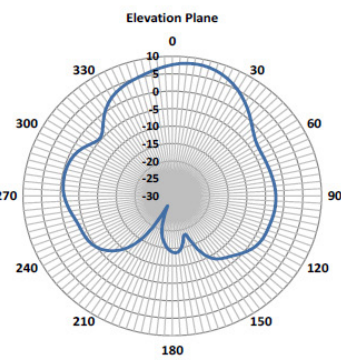
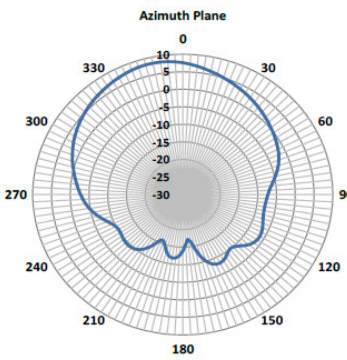
Radiation Pattern at 1880 MHz

Radiation Pattern at 2110 MHz

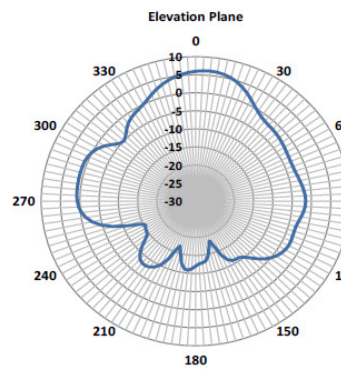
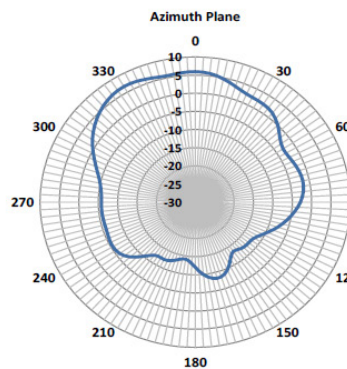


Radiation Pattern at 2305 MHz

Radiation Pattern at 2412 MHz



Radiation Pattern at 2700 MHz



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