



PAV69278PO / PAV6927PI

**LTE Vertical Low PIM Directional Panel
Antenna 698-960 MHz/1710-2700MHz**

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 LP TE 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 AND BENEFITS

- 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

- FirstNet/Public Safety
- In-building or outdoor wireless networks
- Wireless terminal, point-of-sale, and machine-to-machine
- Automatic meter reading
- Commercial and industrial security
- iDAS
- Libraries
- Retail malls
- Bus terminals and train stations
- Other In-building areas

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
VSWR – Avg	<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
Peak Gain – Typ (dBi)	7.0	7.6	7.6	8.3	8.7	8.2	8.4	7.1
Peak Gain – Max (dBi)	7.6	7.8	7.8	8.8	8.8	8.8	8.7	7.8
PIM - 2x20W – Typ (dBc)	< -150			< -153				
PIM - 2x20W – Max (dBc)	< -150			< -150				
Nominal Impedance (Ohms)	50							
Max Power - Ambient 25°C (W)	50							
Polarization	Vertical							

ELECTRICAL SPECIFICATIONS

Azimuth 3 dB Beamwidth	75°/63°
Elevation 3 dB Beamwidth	64°/51°
Front-to-Back Ratio (dB)	10/25

MECHANICAL SPECIFICATIONS

Dimensions – mm (in.)	249.4 x 248.5 x 61.3 (9.82 x 9.8 x 2.41)
Weight with Mounting Kit – kg (lbs.)	0.62 (1.35)
Antenna Color	White
Radome Material (PAV69278PO/PAV69278PI)	Luran ASA/Toyolac ABS, UV Stable, UL 94-HB Material

ENVIRONMENTAL SPECIFICATIONS

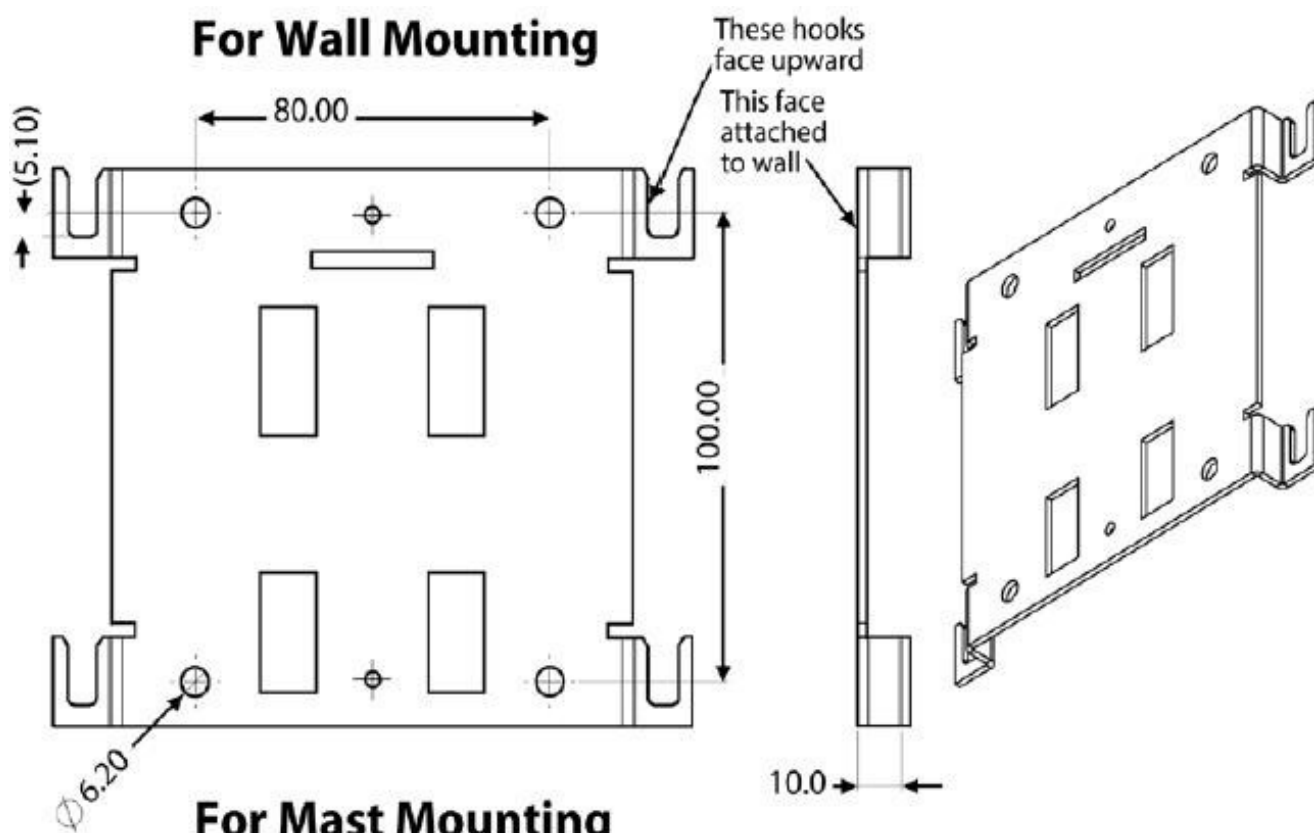
Operating Temperature – C° (F°)	-40 to +70 (-40 to +158)
Storage Temperature – C° (F°)	-40 to +85 (-40 to +185)
Wind Operational – km/h (100 mph)	160 (100)
Wind Survival – km/h (100 mph)	220 (136)
Ingression Protection (PAV69278PO)	IP67
Material Substance Compliance	RoHS

CONFIGURATIONS

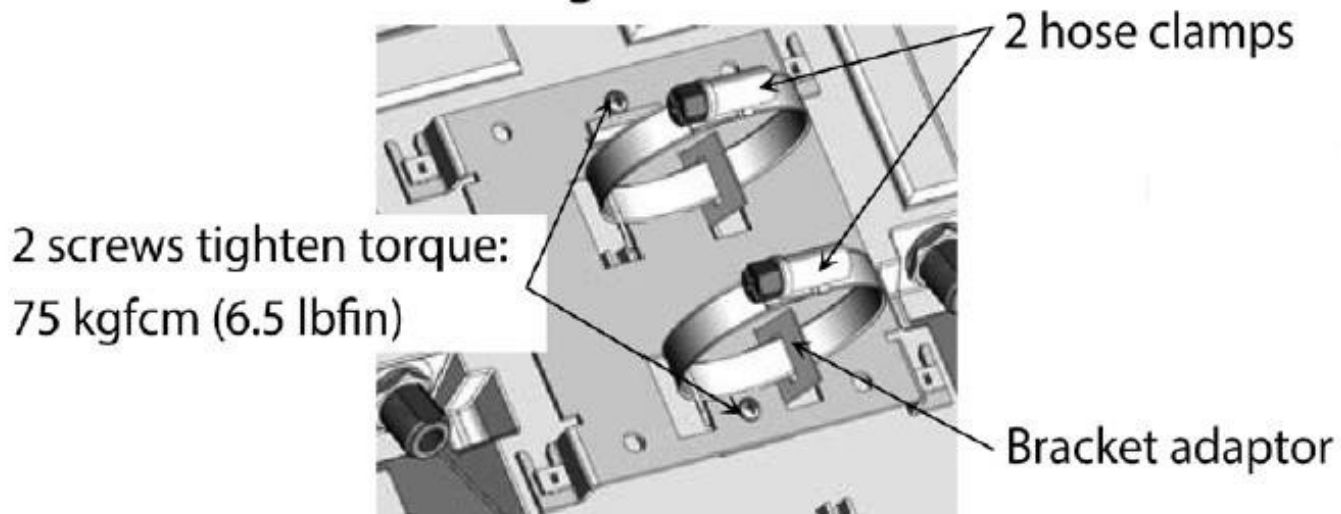
PART NUMBER	CABLE LENGTH	CONNECTOR
PAV69278PO-30NF	30 cm (12 in.)	Type N-female
PAV69278PO-30D43F	30 cm (12 in.)	4.3-10 DIN female
PAV69278PO-FNF	N/A	Fixed N-female
PAV69278PI-FNF	N/A	Type N-female
PAV69278PI-30NF	30 cm (12 in.)	Type N-female
PAV69278PI-30D41F	30 cm (12 in.)	4.1-9.5 female
PAV69278PI-30D43F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

MOUNTING

For Wall Mounting

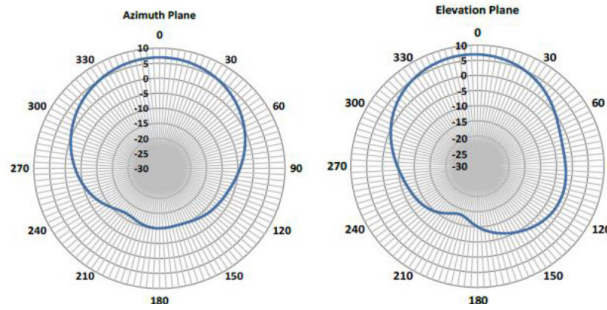


For Mast Mounting

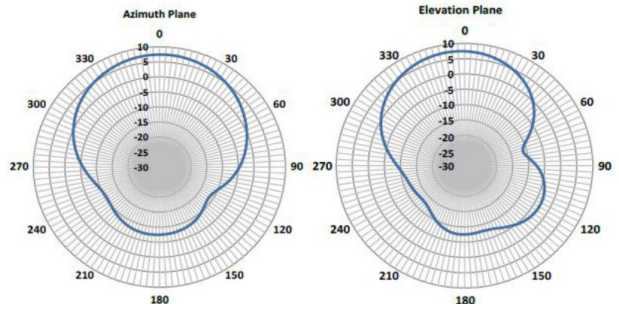


CONFIGURATIONS

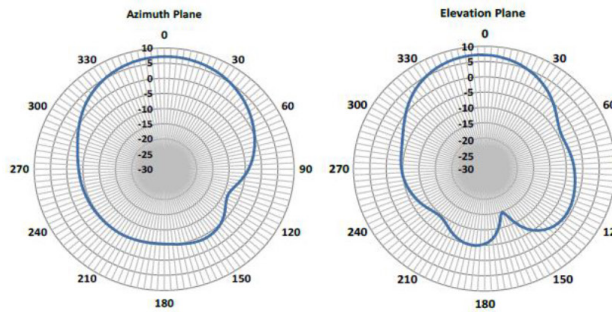
Radiation Pattern at 698 MHz



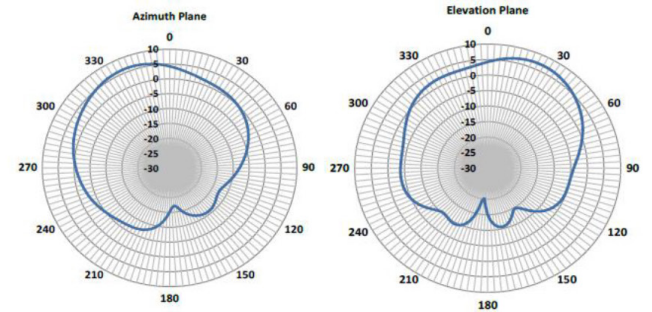
Radiation Pattern at 824 MHz



Radiation Pattern at 960 MHz

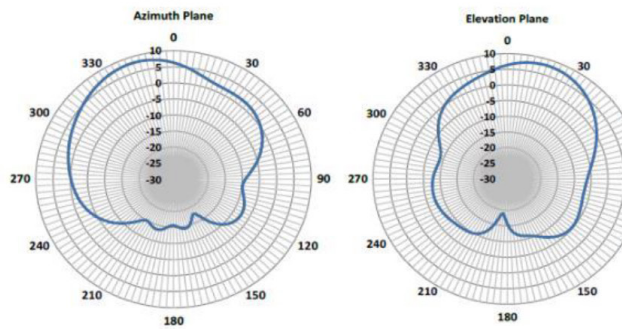


Radiation Pattern at 1710 MHz

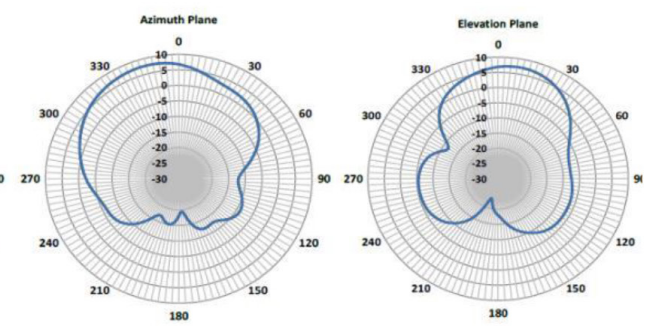


— S1 fixed
— S5 pigtail

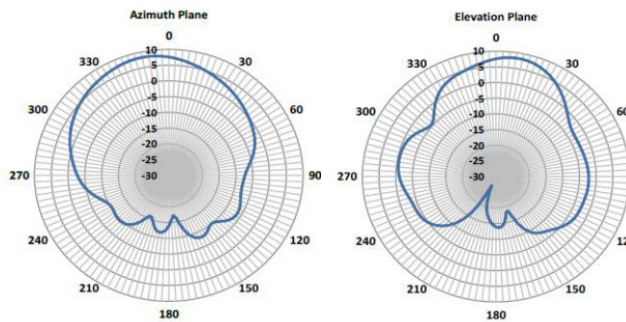
Radiation Pattern at 1880 MHz



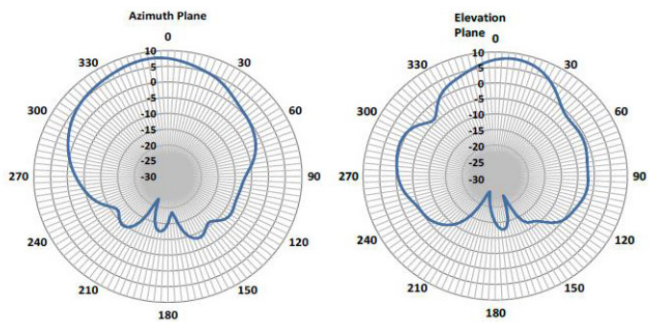
Radiation Pattern at 2110 MHz



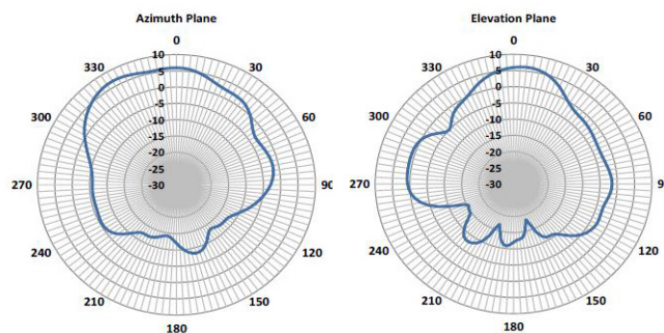
Radiation Pattern at 2305 MHz



Radiation Pattern at 2412 MHz



Radiation Pattern at 2700 MHz



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