



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

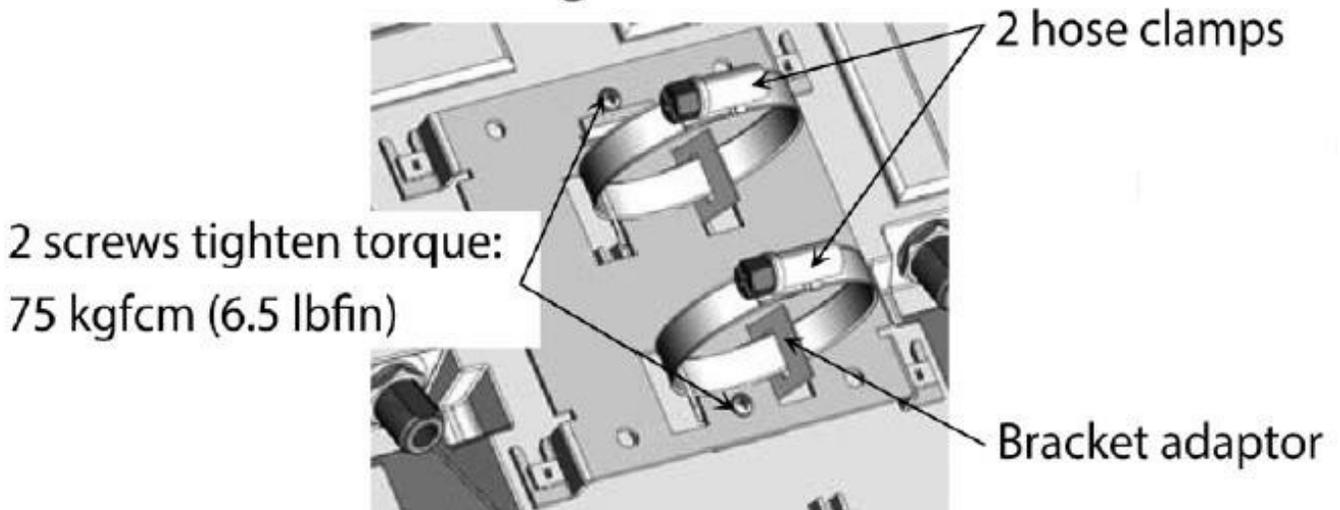
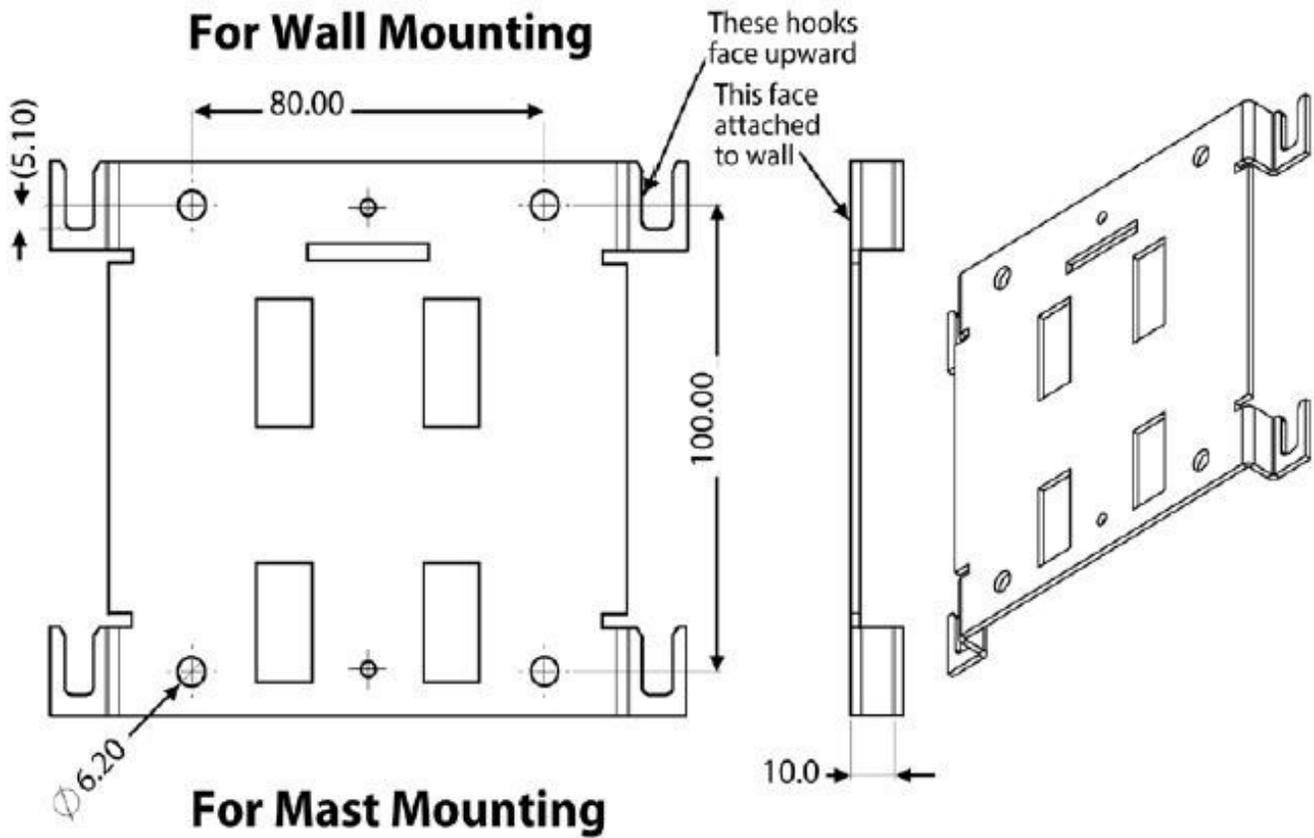
ENVIRONMENTAL SPECIFICATIONS

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

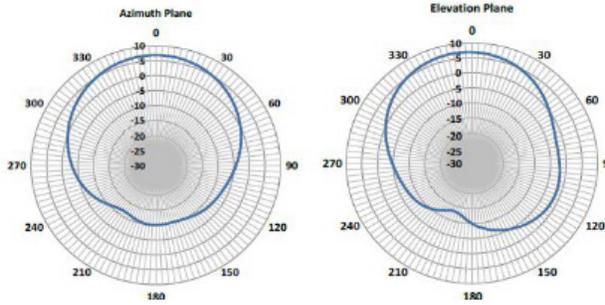
PART NUMBER	CABLE LENGTH	CONNECTOR
PAV69278PO-30NF	30 cm (12 in.)	Type N-female
PAV69278PO-30D43F	30 cm (12 in.)	4.3-10 DIN female
PAV69278PO-FNF	N/A	Fixed N-female
PAV69278PI-FNF	N/A	Type N-female
PAV69278PI-30NF	30 cm (12 in.)	Type N-female
PAV69278PI-30D41F	30 cm (12 in.)	4.1-9.5 female
PAV69278PI-30D43F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

MOUNTING

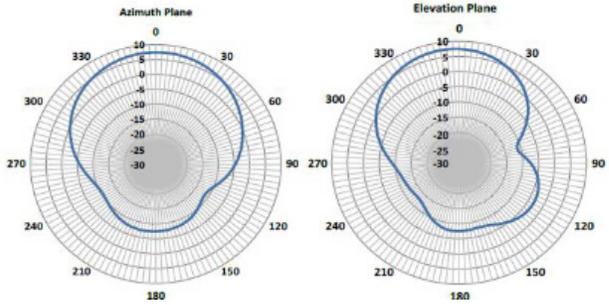


CONFIGURATIONS

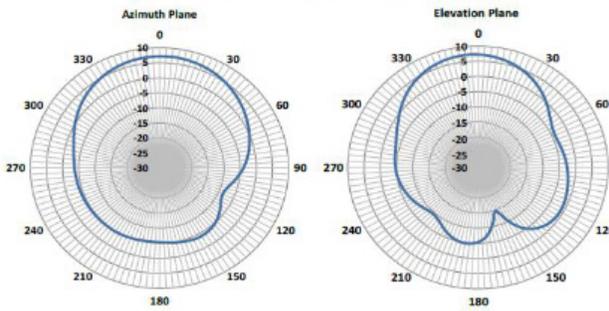
Radiation Pattern at 698 MHz



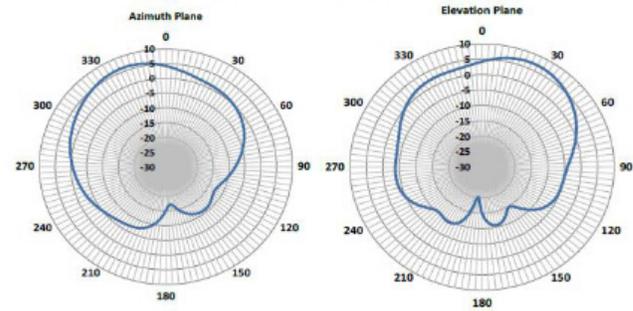
Radiation Pattern at 824 MHz



Radiation Pattern at 960 MHz

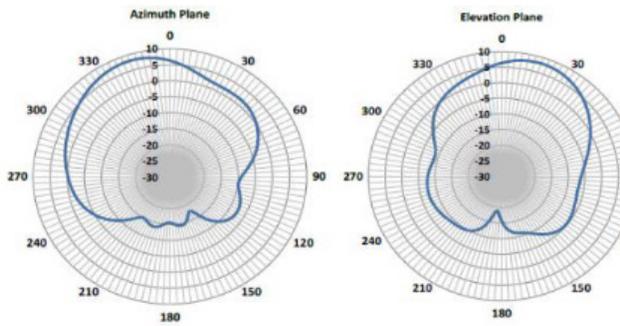


Radiation Pattern at 1710 MHz

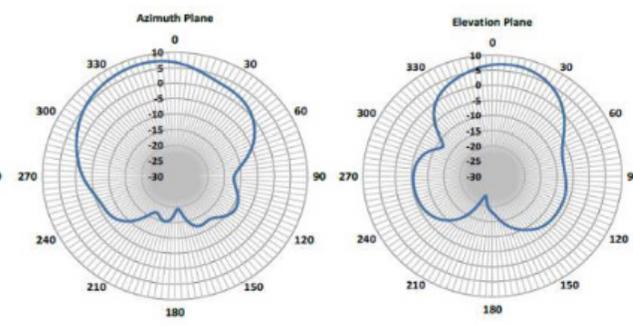


— S1 fixed
— S5 pigtail

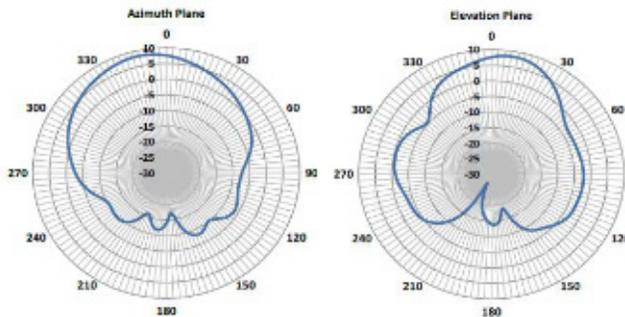
Radiation Pattern at 1880 MHz



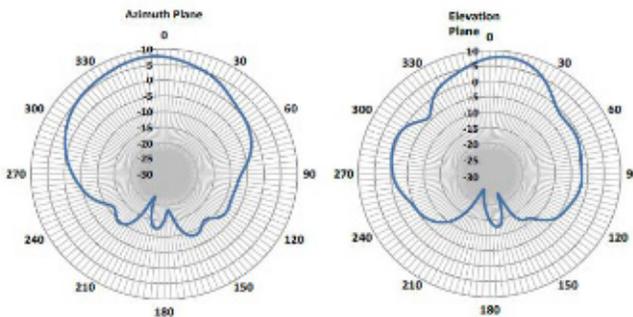
Radiation Pattern at 2110 MHz



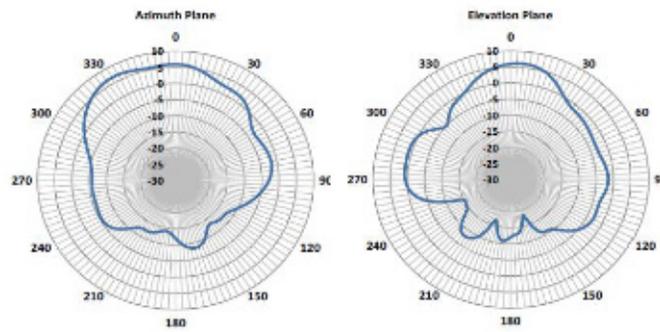
Radiation Pattern at 2305 MHz



Radiation Pattern at 2412 MHz



Radiation Pattern at 2700 MHz



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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