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# 698-960 MHz/1710-2700 MHz LTE Vertical Low PIM Directional Panel Antenna PAV69278PO



## LTE MULTIBAND LOW PIM DIRECTIONAL PANEL ANTENNA

The PAV692780 is a Low PIM, Multiband, high gain directional panel antenna 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. This antenna will greatly enhance the performance of LTE systems and is ideal for indoor or outdoor applications. The antenna includes a wall mounting bracket, anchors and bolts. The antenna 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 & clamps.
- Multiple connector & coax options available.
- IP67 rated for dust, dirt & 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	PAV69278PO SPECIFICATIONS							
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	50Ω							
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	Luran ASA, 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	IP67							
Material Substance Compliance	RoHS							

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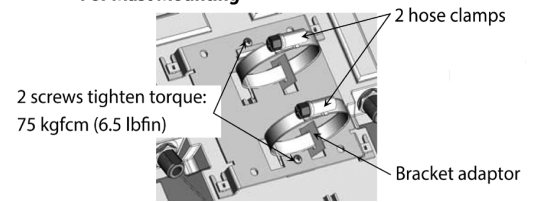
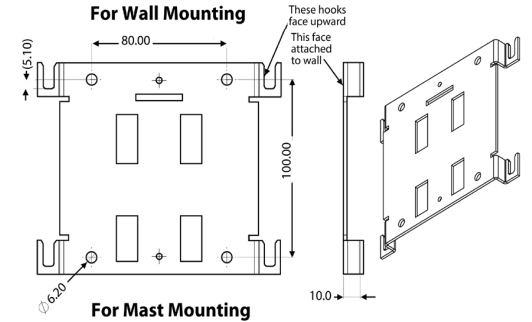
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# 698-960 MHz/1710-2700 MHz LTE Vertical Standard Directional Panel Antenna PAV69278PO

## CONFIGURATION

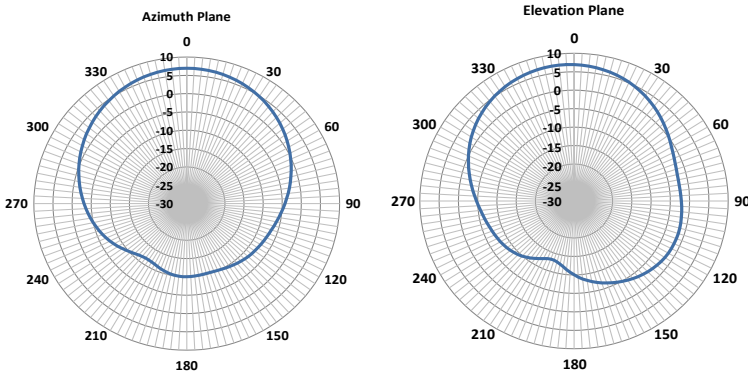
PART NUMBER	CABLE LENGTH	CONNECTOR
PAV69278PO-30NF	30 cm (12")	Type N- female
PAV69278PO-30D43F	30 cm (12")	4.3-10 DIN female
PAV69278PO-FNF	N/A	Fixed N- female

## MOUNTING

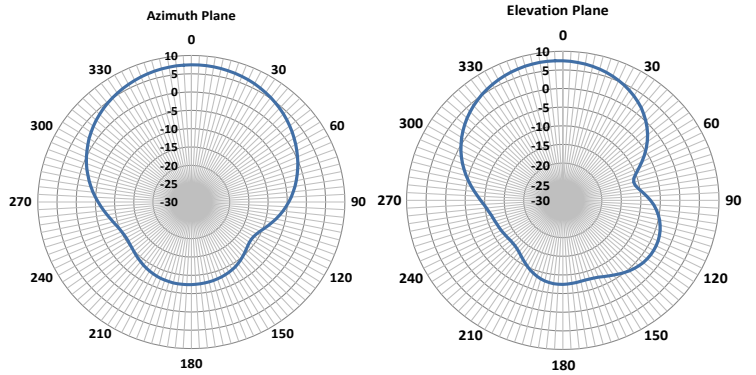


## RADIATION PATTERNS

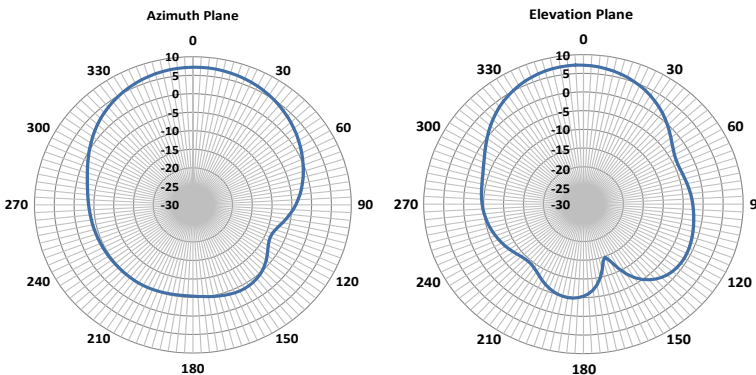
Radiation Pattern at 698 MHz



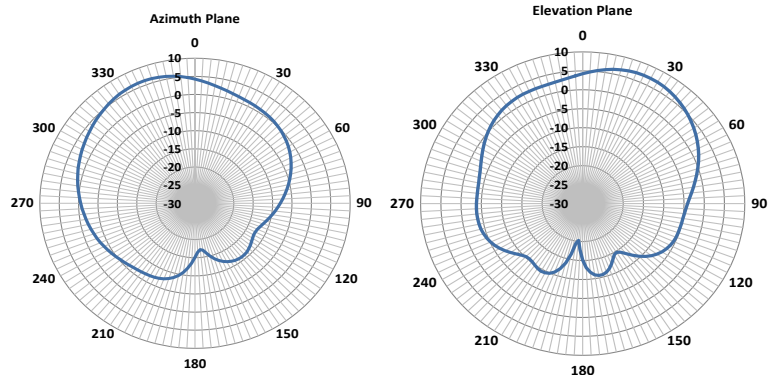
Radiation Pattern at 824 MHz



Radiation Pattern at 960 MHz



Radiation Pattern at 1710 MHz





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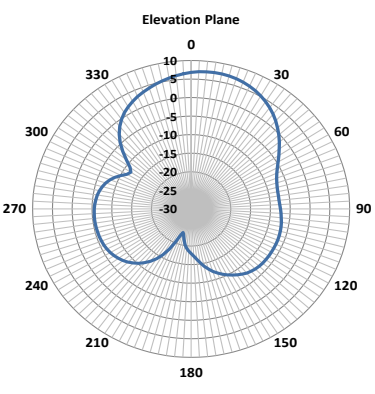
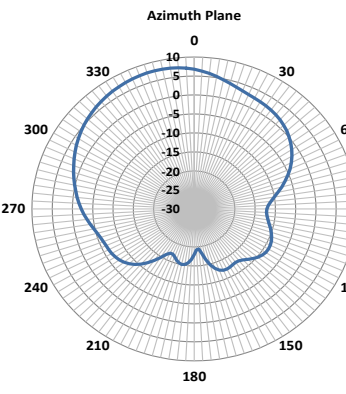
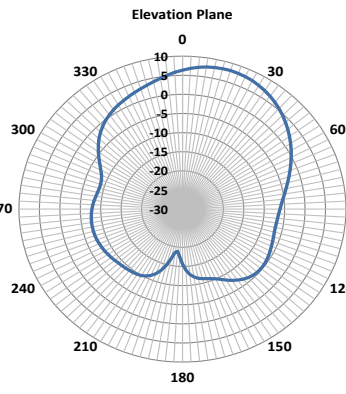
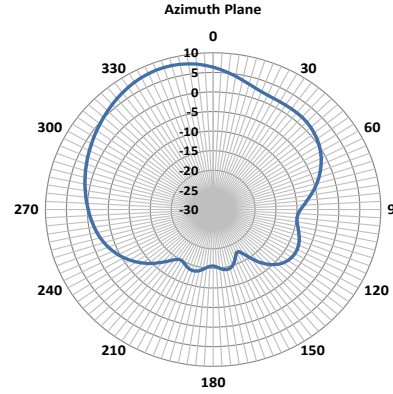
## LTE Vertical Standard Directional Panel

### Antenna PAV69278PO

— S1 fixed  
— S5 pigtail

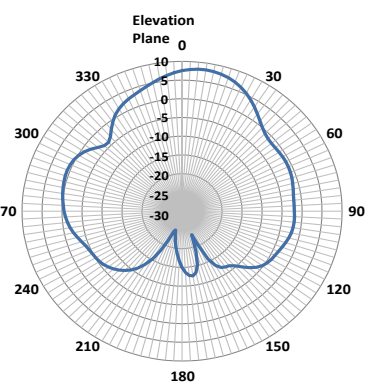
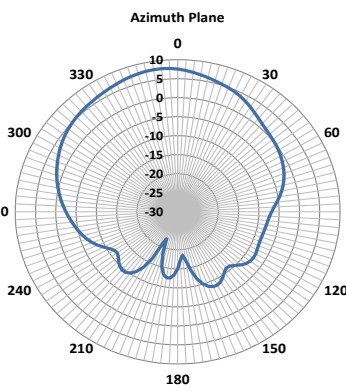
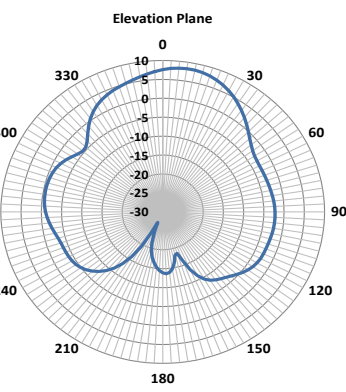
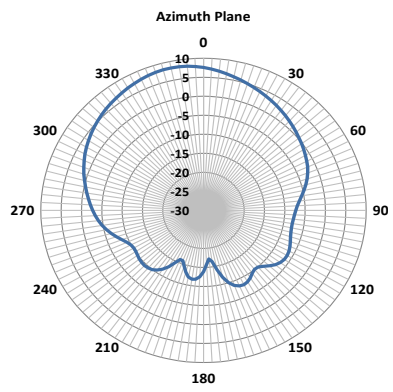
#### Radiation Pattern at 1880 MHz

#### Radiation Pattern at 2110 MHz

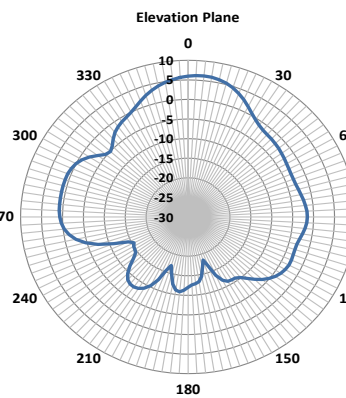
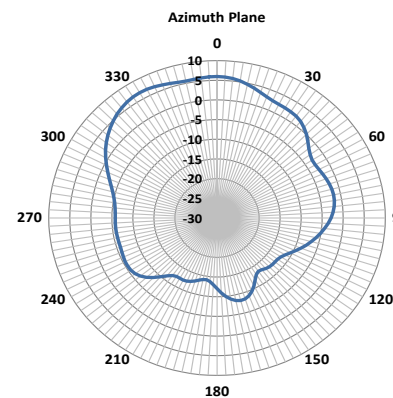


#### Radiation Pattern at 2305 MHz

#### Radiation Pattern at 2412 MHz



#### Radiation Pattern at 2700 MHz



ANT-DS-PAV69278PO\_012016

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