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# 698-960 MHz/1710-2700 MHz LTE Vertical Standard Directional Panel Antenna PAV692780



PAV692780-30NF



PAV692780-FNF

## LTE MUTI-BAND DIRECTIONAL PANEL ANTENNA

The PAV692780 is a 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 adaptor and clamps.

### FEATURES



- Performance optimized using Laird proprietary RF optimization tools.
- Can be mounted directly to wall with standard bracket or mast mounted with bracket adapter & clamps.
- UV stable, aesthetically compact radome with excellent flame rating.
- Multiple connector and coax options available including fixed Type N(F) and integrated coax pigtail with Type N(F).
- Conformance to RoHS.
- IP67 rated for dust, dirt & water ingress.

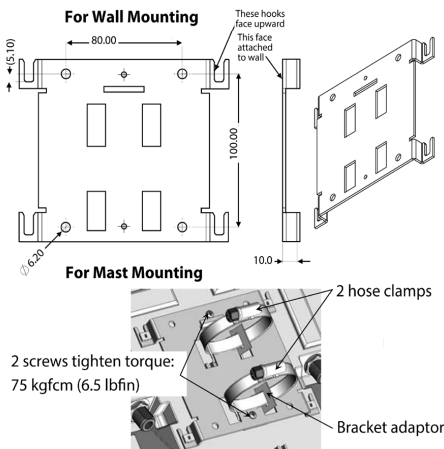
### APPLICATIONS

- In-building or Outdoor Wireless Networks
- Wireless Terminal, Point-of-Sale, and Machine-to-Machine
- Automatic meter reading
- Commercial and industrial security

## SPECIFICATIONS

PARAMETER	SPECIFICATION	
	MODEL PAV692780	
Frequency Bands, MHz	698-960 MHz	1710-2700 MHz
Peak Gain, dBi (Typ)	6.8	7.6
Peak Gain, dBi (Max)	7.6	8.1
VSWR, Typ	<1.8:1	<1.8:1
VSWR, Max	<2.0:1	<2.0:1
Azimuth 3 dB Beamwidth	75°	63°
Elevation 3 dB Beamwidth	64°	51°
Front-to-Back Ratio	10 dB	25 dB
Nominal Impedance	50Ω	
Polarization	Vertical	
Max Power (Ambient 25°C)	50 Watts	
Antenna Dimension (H x Dia)	249.4 x 248.6 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	-30°C to +70°C	
Storage Temperature	-40°C to +85°C	
Ingression Protection	IP67	
Material Substance Compliance	RoHS	
Connector(s)	PAV692780-30NF (pigtail w/Type N(F))	PAV692780-FNF (fixed Type N (F))

## MOUNTING OPTIONS



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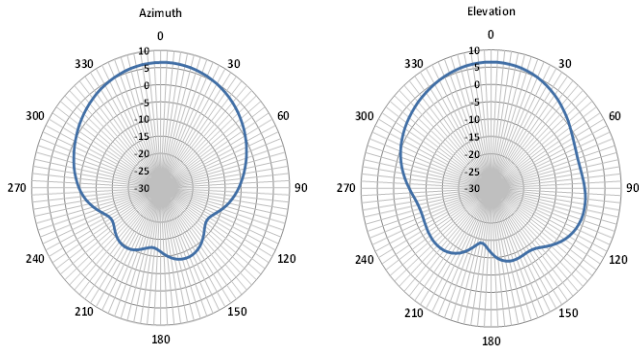


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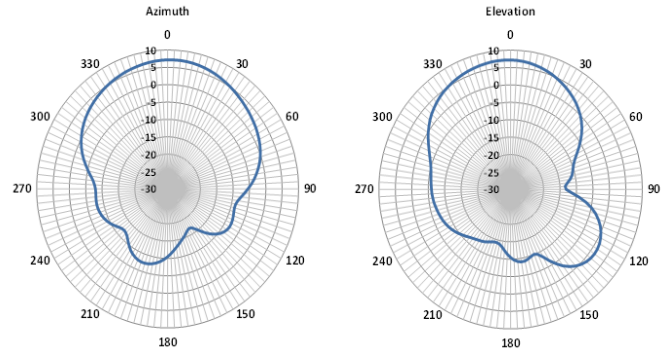
# 698-960 MHz/1710-2700 MHz LTE Vertical Standard Directional Panel Antenna PAV692780

- S1 fixed
- S5 pigtail

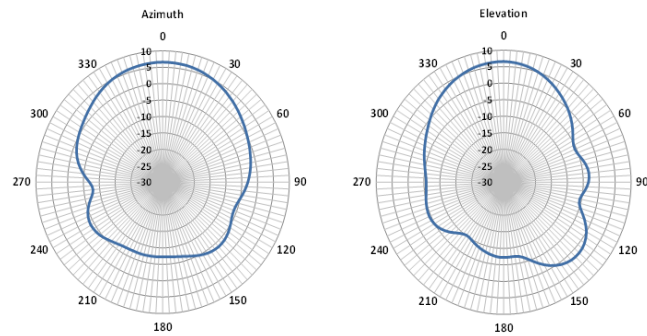
**Radiation Pattern at 698 MHz**



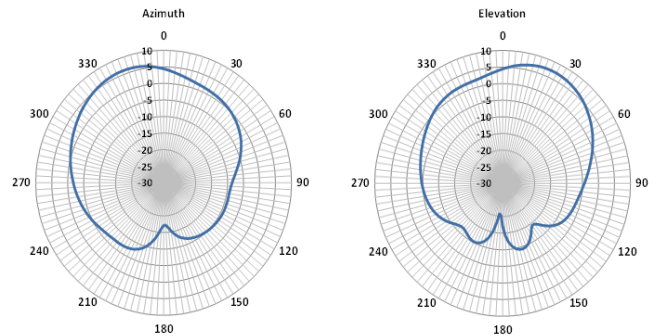
**Radiation Pattern at 824 MHz**



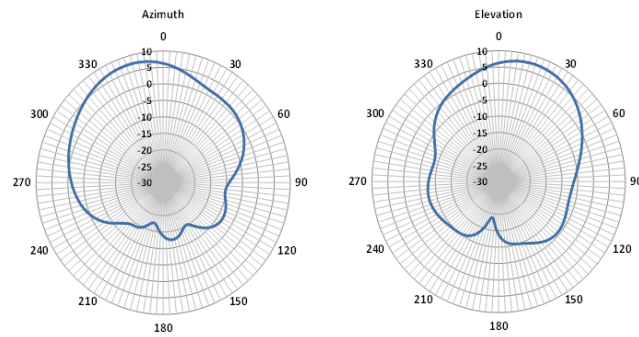
**Radiation Pattern at 960 MHz**



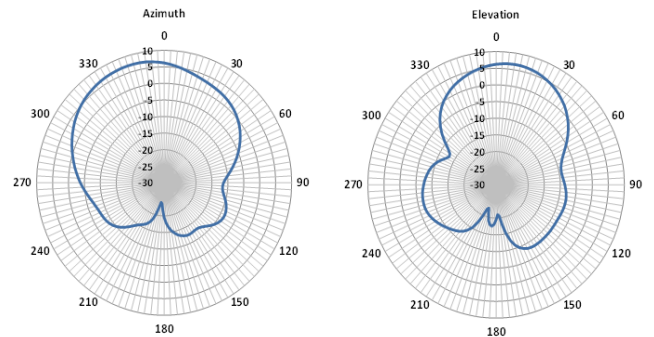
**Radiation Pattern at 1710 MHz**



**Radiation Pattern at 1880 MHz**



**Radiation Pattern at 2110 MHz**



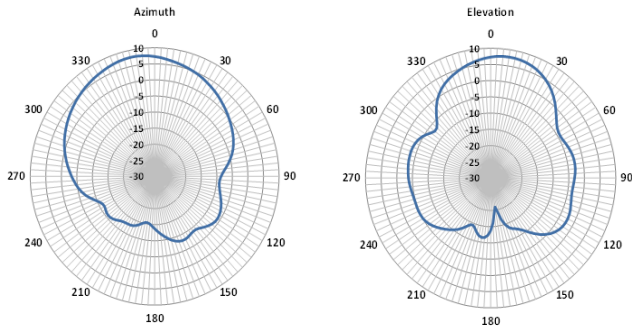


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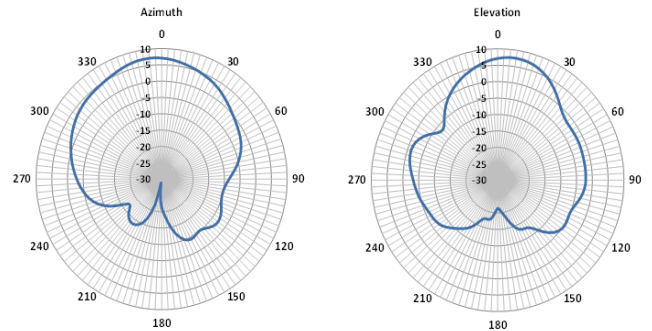
# 698-960 MHz/1710-2700 MHz LTE Vertical Standard Directional Panel Antenna PAV692780

- S1 fixed
- S5 pigtail

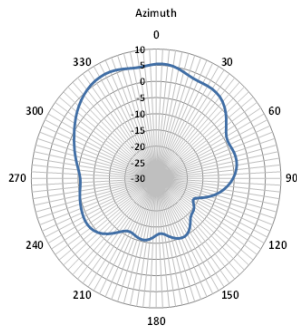
**Radiation Pattern at 2305 MHz**



**Radiation Pattern at 2412 MHz**



**Radiation Pattern at 2700 MHz**



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