



PAV692781

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

The PAV692781 is a multi-band, 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 greatly enhances the performance of LTE systems and is ideal for indoor applications. The antenna includes a wall mounting bracket, anchors, and bolts.

FEATURES AND BENEFITS

- Performance optimized using Laird proprietary RF optimization tools
- Mounts easily and directly to wall
- UV stable, aesthetically compact Radome with excellent flame rating
- Engineered for superior performance: high dBi gain and excellent VSWR
- Multiple connector and coax options available including fixed Type N(f) and integrated coax pigtail with Type N(f)
- Conformance to RoHS

ELECTRICAL SPECIFICATIONS

| Operating Frequency (MHz) | 698-960 | 1710-2700 |
|---------------------------|----------|-----------|
| VSWR - Max | < 2.0:1 | |
| Gain (dBi) | 8 | |
| Nominal Impedance (Ohms) | 50 | |
| Power Handling (W) | 50 | |
| Polarization | Vertical | |
| HP Beam Width Azimuth | 75° | 63° |
| HP Beam Width Elevation | 64° | 51° |
| Front to Back Ratio (dB) | 10 | 25 |

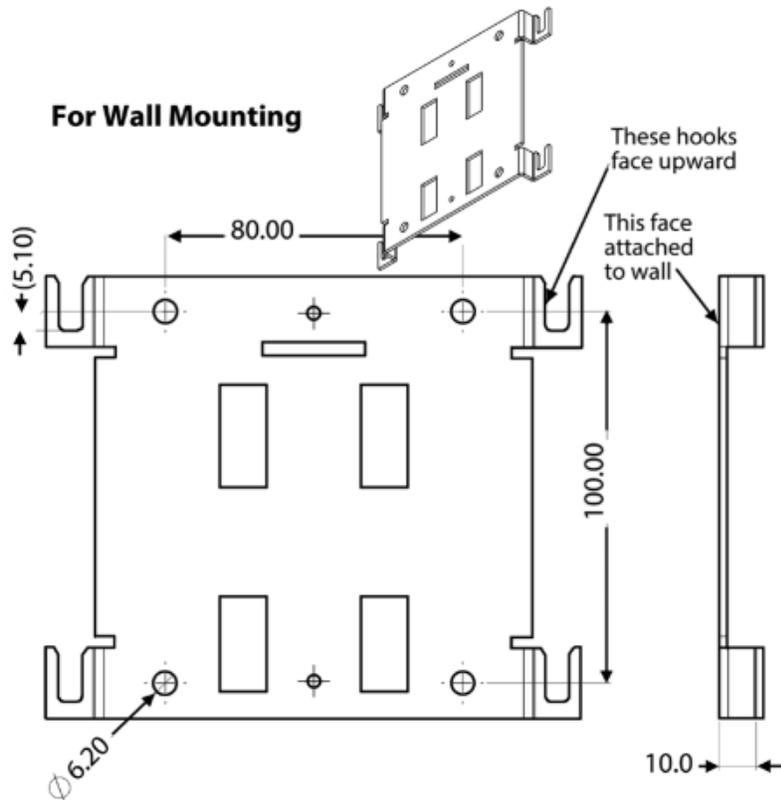
MECHANICAL SPECIFICATIONS

| | |
|--------------------------|--|
| Dimensions - mm (inches) | 249.4 x 248.6 x 61.3 (9.82 x 9.8 x 2.41) |
| Weight - kg (lbs.) | 0.62 (1.35) |
| Mounting | Wall Mount |
| Enclosure | Material: ABS White |
| Plenum Rated | Yes |
| Antenna Type | Directional Panel Indoor |

ENVIRONMENTAL SPECIFICATIONS

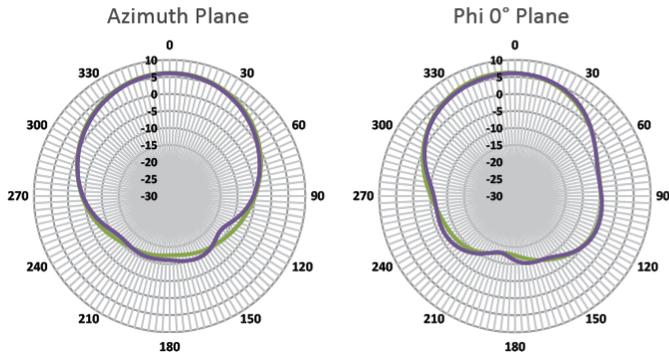
| | |
|---------------------------------|----------------------------------|
| Operating Temperature - °C (°F) | -30°C to +70°C (-22°F to +158°F) |
| Storage Temperature - °C (°F) | -40°C to +85°C (-40°F to +185°F) |
| Material Substance Compliance | RoHS |

MOUNTING OPTIONS

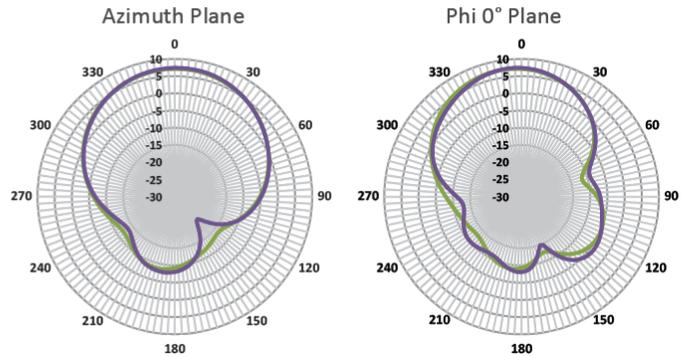


RADIATION PATTERNS

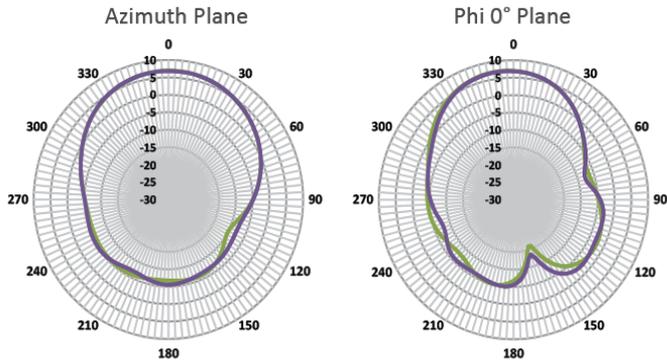
Radiation Pattern at 698 MHz



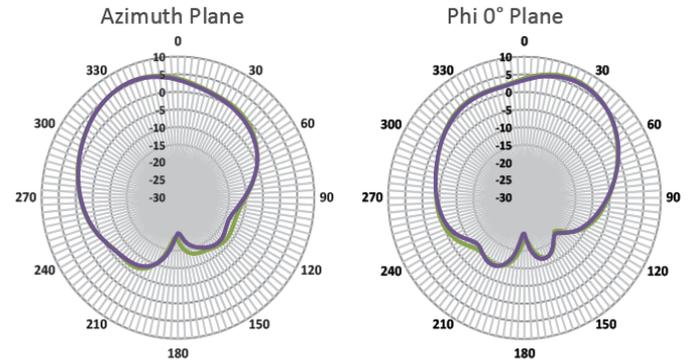
Radiation Pattern at 824 MHz



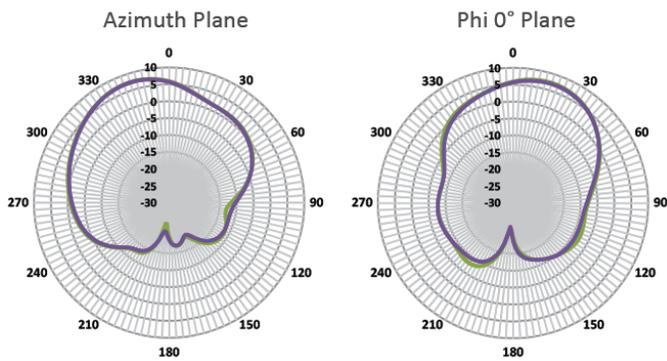
Radiation Pattern at 960 MHz



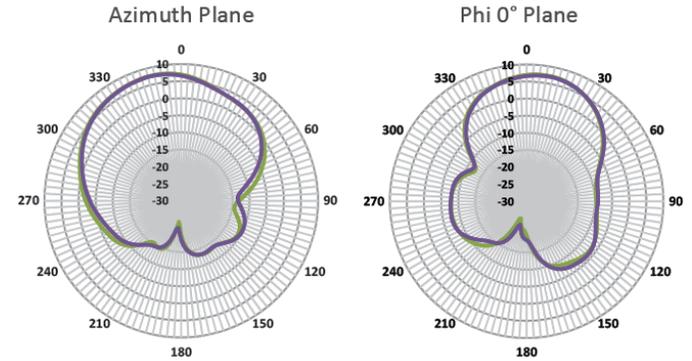
Radiation Pattern at 1710 MHz



Radiation Pattern at 1880 MHz

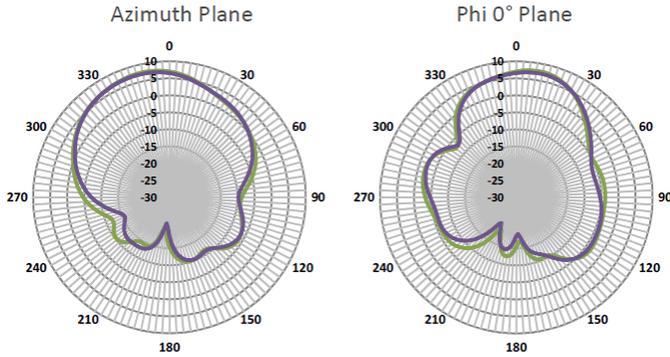


Radiation Pattern at 2110 MHz

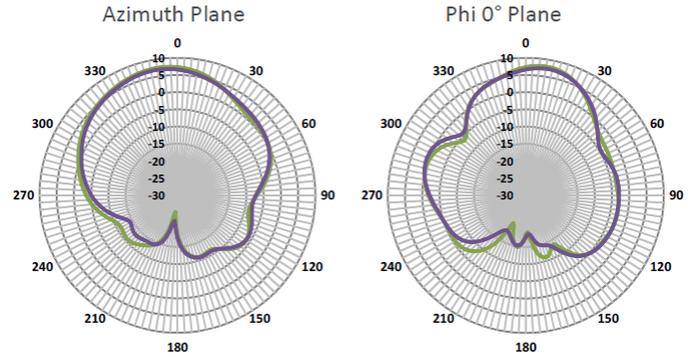


— S1 fixed
— S5 pigtail

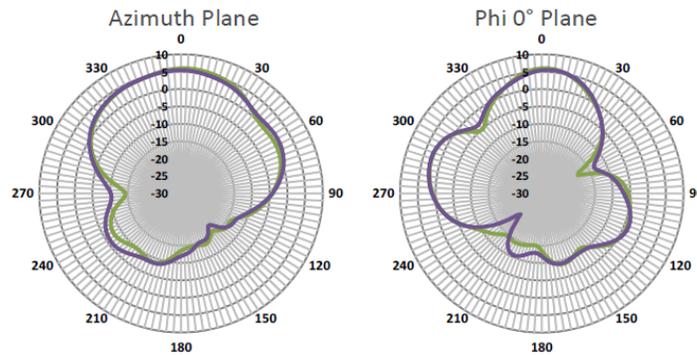
Radiation Pattern at 2305 MHz



Radiation Pattern at 2412 MHz



Radiation Pattern at 2700 MHz



— S1 fixed
— S5 pigtail

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