

PCTEL PCTHPDLTE-SF Wideband 2X2 MIMO 4G Stud Antenna

Product Code

PCTHPDLTE-SF

Polarisation

2x2 MIMO

Design Type

Combination Planar

Application Category

IoT/M2M

RF Category

Cellular



PCTEL's dual LTE 2X2 MIMO antenna provides dual LTE coverage in a single low profile housing, covering the full global cellular band from 698 to 960 and 1710 to 2700 MHz.

The antenna's metal 1-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement. Its IP67 compliant design provides maximum protection against water or dust ingress under severe environmental conditions.

Contour matching, conformable, thermoplastic-elastomer gasket designed to seal between radome and baseplate. Gasket flexes and conforms to contoured surfaces. Baseplate has a 3M™ VHB mounting pad for anti-rotation.

- No tune, 698 to 2700 MHz band coverage
- 4G LTE 2X2 MIMO
- Two low loss cables
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit
- IP67 compliant design provides maximum protection against water or dust ingress
- UV-resistant black or white housing options

▼ Antenna Technical Data

Physical Characteristics

Construction Material	ABS Plastic Polycarbonate (PC)	RF Connections	2
Radome Colour	Other - Black	Environmental Rating	IP67
Dimensions	132 x 94 mm (L x ø)	Operating Temperature	-40 °C to 85 °C
Weight	No Data	Mounting	Metal 3/4-inch stud (19 mm)

▼ Cellular MIMO-1 Element

Electrical Specifications**Mechanical Specifications**

Input Impedance	50 Ω	Input Connector	SMA
Polarisation	Vertical (V)	Input Connector Gender	Male
Max. Input Power	50 W	Cable Series	LMR-195
PIM, 3rd Order	-	Cable Length	5180 mm

▼ Range: 698 to 960 MHz

Peak Gain	2.50 dBi	Azimuth Beamwidth	360°
VSWR	2.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Range: 1710 to 2700 MHz

Peak Gain	2.50 dBi	Azimuth Beamwidth	360°
VSWR	2.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Cellular MIMO-2 Element**Electrical Specifications****Mechanical Specifications**

Input Impedance	50 Ω	Input Connector	SMA
Polarisation	Vertical (V)	Input Connector Gender	Male
Max. Input Power	50 W	Cable Series	LMR-195
PIM, 3rd Order	-	Cable Length	5180 mm

▼ Range: 698 to 960 MHz

Peak Gain	2.50 dBi	Azimuth Beamwidth	360°
VSWR	2.0:1	Elevation Beamwidth	No Data

Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Range: 1710 to 2700 MHz

Peak Gain	2.50 dBi	Azimuth Beamwidth	360°
VSWR	2.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

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