



Dual 5G LTE Multi-Band Antenna

The Trooper™ antenna platform supports the high speed requirements of complex RF communication systems used for Intelligent Transportation Systems (ITS), and IIoT applications. Its compact footprint makes this antenna ideal for installation on surfaces with limited surface space, including leading public safety vehicle rooftops and Industrial lot (IIoT) cabinet installations.

Features

- No tune, multi-band coverage: dual port 5G LTE elements
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- IP67 compliant design provides maximum protection against water or dust ingress under severe environmental conditions*
- UV-resistant black or white housing options complement most vehicular aesthetic requirements



PCTHPDLTE-LTB and PCTHPDLTE-LTW

STANDARD CONFIGURATION

| Model | Cable | Connector | Mount | Housing Color |
|---------------|--------------------------------------|-----------|--|---------------|
| PCTHPDLTE-LTB | Two-17 feet Pro-Flex™ Plus 195 (LTE) | SMA Plug | 1-inch hole, 3/4-inch long (.75") zinc stud mount with jam nut | Black |
| PCTHPDLTE-LTW | Two-17 feet Pro-Flex™ Plus 195 (LTE) | SMA Plug | 1-inch hole, 3/4-inch long (.75") zinc stud mount with jam nut | White |

ELECTRICAL SPECIFICATIONS - RF ANTENNAS

| Elements | F1 (MHz) | F2 (MHz) | SWR** | Gain (dB)*** | | | Efficiency*** | | Polarization | Nominal Impedance | Maximum Power |
|-------------------|----------|----------|-------|--------------|---------|-----------|---------------|-----------|--------------|-------------------|---------------|
| | | | | Max | Typical | Range (±) | Avg | Range (±) | | | |
| LTE Primary (1&2) | 617 | 698 | 2.2 | 4.0 | 2.2 | 1.8 | 54% | 19% | Linear | 50 ohms | 50 watts |
| | 698 | 802 | 1.6 | 5.0 | 4.0 | 0.9 | 68% | 5% | | | |
| | 824 | 960 | 1.4 | 5.5 | 4.3 | 1.2 | 61% | 5% | | | |
| | 1710 | 2200 | 1.4 | 6.5 | 5.5 | 0.9 | 78% | 3% | | | |
| | 2300 | 2690 | 1.5 | 8.8 | 6.8 | 1.9 | 78% | 4% | | | |
| | 3400 | 3800 | 1.8 | 6.8 | 6.1 | 0.7 | 73% | 3% | | | |
| | 5150 | 5950 | 1.4 | 10.1 | 8.6 | 1.5 | 81% | 13% | | | |

ELECTRICAL SPECIFICATIONS - RF ANTENNAS, continued

Minimum Isolation (dB)**

| Elements | LTE Primary (1&2) |
|-------------------|---|
| LTE Primary (1&2) | 617-960 MHz 1.71-2.7 GHz 3.3-3.59 GHz |
| | 9.0 15.0 32.0 |

MECHANICAL SPECIFICATIONS

| Dimensions (W x H) | Weight | Radome Construction | Operating/Storage Temperature | Gasket Design & Construction |
|------------------------------------|---------|-------------------------------------|-------------------------------|--|
| 4.05 W x 3.46 H in (10.3 x 8.8 cm) | 2.0 lbs | UV-Stable Rugged Thermoplastics *** | -40°C to +85°C | 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. |

* If installed according to PCTEL's installation instructions ** SWR and isolation measured with 17-ft cables and 2-ft ground plane *** Gain and efficiency measured with no cable and 2-ft ground plane. 3M is a registered trade mark of 3M Company.