

# LTE Cellular Broadband Omnidirectional Antenna with Optional Integrated GPS Unit

The BOA-LCM multi-band antenna series utilizes PCTEL's broadband element technology to achieve superior bandwidth performance. This platform offers multi-band coverage, optional high rejection GPS LNA technology, an easy to install design with ruggedized materials to provide maximum durability and performance for mobile data and video communications.

### Features

- Multi-band coverage: 700 MHz LTE, 800 MHz Cellular/SMR, 900 MHz GSM/ISM, 1700-2200 MHz GSM/PCS, 3G/4G LTE, AWS, 2.4 GHz Wi-Fi and 2.5-2.7 GHz WiMAX broadband wireless frequencies
- Dual MIMO design with full broadband coverage on both RF antenna ports
- High performance, low loss cable and connectors for maximum efficiency
- Collar mount for ease of installation on pipes up to 1.66 inches OD
- UV-resistant, rugged fiberglass housing



BOA-LCMGPS-PTNM

### STANDARD CONFIGURATION

Model	Cable	Connector	Mount
BOA-LCMGPS-PTNM	Three - 4 foot (1.2 m) RG-142B	N Male*	Collar mount (included) to fit schedule 40 (1.38-inch ID) or schedule 80 (1.278-inch ID) pipe sizes (pipe not included)
BOA-LCM-PTNF	Two - 4 foot (1.2 m) RG-142B	N Female*	Collar mount (included) to fit schedule 40 (1.38-inch ID) or schedule 80 (1.278-inch ID) pipe sizes (pipe not included)

### ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Gain	VSWR	Average Power	Nominal Impedance	Polarization
BOA-LCMGPS-PTNM	690-2700 MHz	2 dBi	< 2.0:1	50 watts	50 ohms	Vertical, linear x 2
BOA-LCM-PTNF	690-2700 MHz	2 dBi	< 2.0:1	50 watts	50 ohms	Vertical, linear x 2

### ELECTRICAL SPECIFICATIONS - GPS ANTENNA

Model	Frequency Range	Amplifier Gain*	Current Draw	DC Voltage	VSWR	Noise Figure
BOA-LCMGPS-PTNM	1575.42 MHz (GPS L1)	26 dB ± 3 dB	< 30 mA	3-5.5 V	1.5:1 typical output	1.8 dB typical

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Dimensions	Weight	Housing Material	Ingress Protection	Temperature Range
3.25 OD x 20 H in (8.26 x 50.8 cm)	4.2 lbs (1.91 kg)	Black, UV-stable fiberglass	IP54	-40°F to +185°F (-40°C to +85°C)

\* Consult Customer Service for other connector options.