

## LTE Cellular Broadband Omnidirectional Antenna with Optional Integrated GPS Unit

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

### Features

- Multiband 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)

\* Other connector options available upon request.