



## B4505CN

### Base Loaded Mobile Antennas 450-470 MHz

Laird Connectivity's ongoing commitment to refinement in mechanical and electrical design results in the most technically advanced mobile load coil antennas on the market. Exclusive features such as stainless-steel whips, housings constructed with ABS material injected molded around a solid brass insert, and gold-plated push pin contacts make Laird Connectivity the obvious choice for quality and long-lasting value for demanding mobile radio communications.

#### FEATURES AND BENEFITS

- Long tuning ferrule allows for greater freedom in minor frequency adjustment. Tuning chart included
- High performance mobile antenna operates on a no ground plane (NGP) requirement
- Straight stainless-steel corona ball stays on the rod - no dissimilar metal interaction associated with competitor designs
- Easy installation with NMO mountable
- 100% tested on a network analyzer

#### APPLICATIONS

- Public safety
- Transportation
- Utility
- Military mobile

#### ELECTRICAL SPECIFICATIONS

Model Name	B4505CN/BB4505CN/B4505CNS/BB4505CNS
Operating Frequency (MHz)	450-470
VSWR - Avg	≤ 2.0:1
Gain (dBi)	5
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Pattern	Omni-directional
Polarization	Vertical
Vertical Plane 3 dB Beamwidth (°)	28
Horizontal Plane 3 dB Beamwidth (°)	360

#### MECHANICAL SPECIFICATIONS

Dimensions - height x diameter - mm (inches)	820 x 36.57 (32.25 x 1.44)
Weight - g (oz.)	205.5 (7.25)

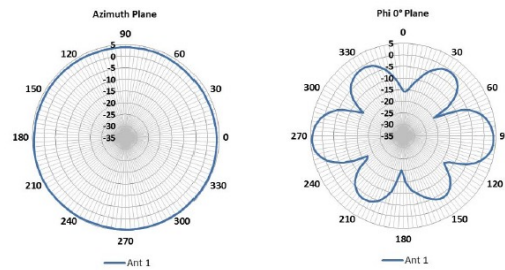
## ENVIRONMENTAL SPECIFICATIONS

Indoor or Outdoor	Outdoor
Storage Temperature - °C (°F)	-35 to +85°C (-31 to +185°F)
Material Substance Compliance	RoHS

## CONFIGURATION

PART NUMBER	CONNECTOR
B4505CN	NMO
BB4505CN	NMO
B4505CNS(R)	NMO
BB4505CNS(R)	NMO

## RADIATION PATTERN



## TUNING CHART

FREQUENCY - MHZ	ROD - CM (IN.)
450	28.26 (11 1/8)
455	27.46 (10 13/16)
460	26.35 (10 3/8)
465	25.4 (10)
470	24.9 (9 13/16)

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