



B4505C

Omni-Directional 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

- 5/8 wave over 5/8 wave collinear design for true 5 dBi performance
- Easy installation with NMO mountable
- Special UV-treated radome, resists sun damage
- 100% tested on a network analyzer

APPLICATIONS


- Public safety
- Transportation
- Utility
- Military mobile

ELECTRICAL SPECIFICATIONS

Model Name	B4505C
Operating Frequency (MHz)	450-470 (see cutting chart)
VSWR - Max	< 1.5:1
Gain (dBi)	5
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Pattern	Omni-directional
Polarization	Vertical
Vertical Plane 3 dB Beamwidth (°)	60
Horizontal Plane 3 dB Beamwidth (°)	360



MECHANICAL SPECIFICATIONS

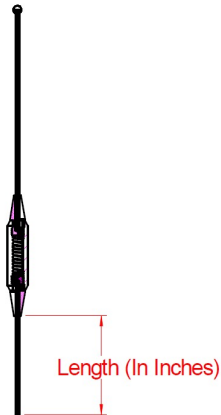
Dimensions - height (initial) x diameter - cm (inches)	84.77 x 36.83 (33 3/8 x 1.45)
Weight - g (oz.)	226.8 (8.0)
Flat Plate Area - sq. ft.	0.02
Mounting Information	NMO mountable
Noise Suppressor	BlackHawk NS1535 1-35 volt, 15 amp (sold separately) 

ENVIRONMENTAL SPECIFICATIONS

Material Substance Compliance	RoHS
Rated Wind Velocity - km/hr (mph)	210 (125)
Rated Wind Velocity (with 0.5" radial ice) - km/hr (mph)	137 (85)
Lateral Thrust @ 125 mph Wind Velocity - kg (lbs.)	26 (57)

CONFIGURATION

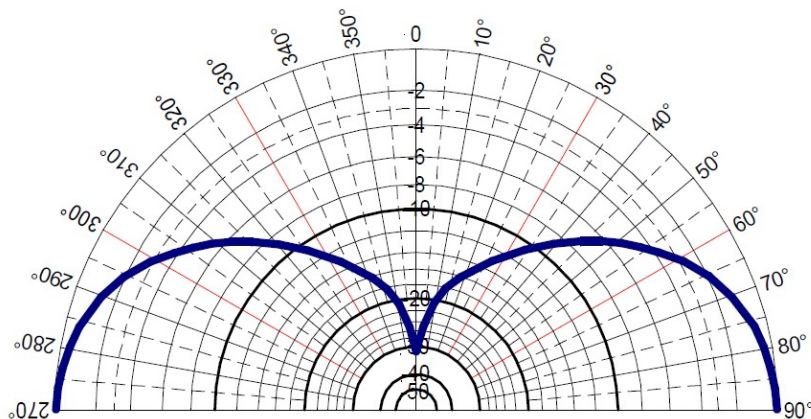
PART NUMBER	CONNECTOR
B4505C	NMO



TUNING CHART

FREQUENCY - MHZ	ROD - CM (IN.)
450	33.97 (13 3/8)
455	32.07 (12 5/8)
460	30.8 (12 1/8)
465	29.53 (11 5/8)
470	28.89 (11 3/8)

RADIATION PATTERNS



Normalized to 5dBi

Elevation Pattern (Y, Z or H-plane)

TE TECHNICAL SUPPORT CENTER

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