



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)

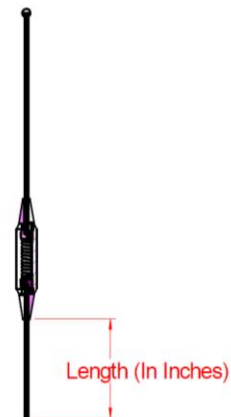
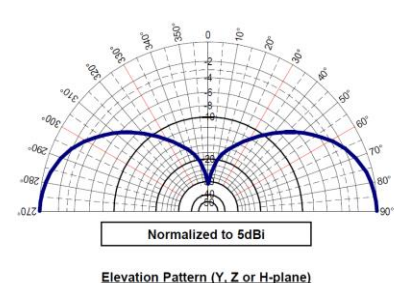
CONFIGURATION

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



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RoHS

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