



## PREMIUM MOBILE LOAD COIL ANTENNAS ARE INDUSTRY STANDARD

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

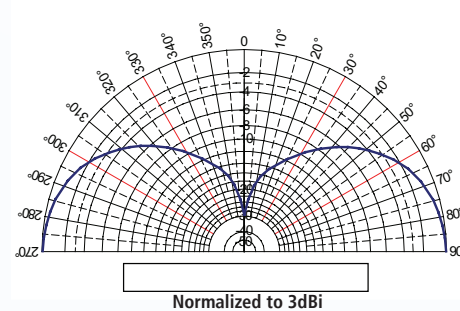
### FEATURES

- Easily removable rod allows the mount to stay water tight during car washes
- O-ring built into the base creates a weather-tight seal
- ABS material is injection molded directly around the solid brass inserts for a virtually indestructible housing that will not leak or disassemble
- All silver soldered joints provide an electrically and mechanically secure connection

### MARKETS

- Public safety
- Transportation
- Utility
- Military mobile

## ANTENNA PATTERNS



Normalized to 3dBi  
Elevation Pattern (Y, Z, or H-plane)

## SPECIFICATIONS

ELECTRICAL	
Frequency Range	430-450 MHz
VSWR	< 2.1 Max
Nominal Gain	3 dBi
Maximum Power	200 W
Nominal Impedance	50 Ω
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	70° x 360°
Coaxial Cable Length & Type (For Vertical Polarization)	None
Terminations	NMO
Noise Suppressor	BlackHawk NS1535 1-35 VOLT, 15 Amp Noise Suppressor (Sold Separately)

MECHANICAL	
Height	19 <sup>5</sup> / <sub>8</sub> " (Also, see cutting chart)
Diameter	1.44"
Weight	< 0.5 lb
Equivalent Flat Plate Area (Wind Resistance in Sq. Ft.)	0.023 sq. ft.
Mounting Information (Sold Separately)	NMO Mountable

## MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION	OVERALL HEIGHT	TUNING
B4303S	430-450 MHz, 5/8 Wave, Chrome Finish	23"	See Cutting Chart
BB4303S	430-450 MHz, 5/8 Wave, Black Finish	23"	See Cutting Chart

## B4303S CUTTING CHART

FREQUENCY	WHIP LENGTH
430 MHz	9-13/16"
435 MHz	9 <sup>5</sup> / <sub>8</sub> "
440 MHz	18-5/16"
445 MHz	9"
450 MHz	8 <sup>3</sup> / <sub>4</sub> "

ANT-DS-B4303S 111014

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