



### PREMIUM MOBILE LOAD COIL ANTENNAS ARE INDUSTRY STANDARD

Laird Technologies' 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 Technologies the obvious choice for quality and long lasting value for demanding mobile radio communications.

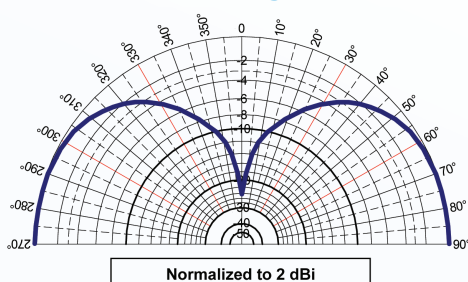
### FEATURES

- 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

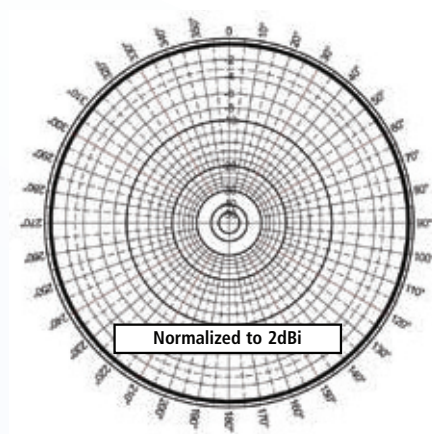
### MARKETS

- Public safety
- Transportation
- Utility
- Military mobile

### ANTENNA PATTERNS



Elevation Pattern (Y, Z, or H-plane)



Azimuth Pattern (X, Y, or E-plane)

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# Mobile Load Coil Antenna

## Spring B132S

### SPECIFICATIONS

| ELECTRICAL   |  |
|--|--|
| Frequency Range  | No Spring 132-525 MHz<br>With Spring 132-525 MHz                               |
| VSWR   | < 2.1 Max  |
| Nominal Gain   | 2 dBi  |
| Maximum Power  | 200 W  |
| Nominal Impedance  | 50 $\Omega$  |
| Polarization   | Vertical   |
| Pattern  | Omnidirectional  |
| Half-Power Beamwidth<br>(Elevation° x Azimuth°)            | 110° x 360°  |
| Coaxial Cable Length & Type<br>(For Vertical Polarization) | None   |
| Noise Suppressor   | BlackHawk NS1535<br>1-35 VOLT, 15 Amp<br>Noise Suppressor<br>(Sold Separately) |

| MECHANICAL   |  |
|--|--|
| Height   | 23" (Also, see cutting chart)  |
| Diameter   | 1.44"  |
| Weight   | < 0.5 lb   |
| Equivalent Flat Plate Area<br>(Wind Resistance in Sq. Ft.) | 0.023 sq. ft.  |
| Mounting Information<br>(Sold Separately)                  | NMO Mountable  |
| Noise Suppressor   | BlackHawk NS1535<br>1-35 VOLT, 15 Amp<br>Noise Suppressor<br>(Sold Separately) |

### MODEL AND ORDERING INFORMATION

| MODEL  | DESCRIPTION   | OVERALL HEIGHT | TUNING            |
|--------|---|----------------|-------------------|
| B132S  | 132-525 MHz, Base Loaded 1/4 Wave<br>Broadband, Chrome Finish | 23"            | See Cutting Chart |
| BB132S | 132-525 MHz, Base Loaded 1/4 Wave<br>Broadband, Black Finish  | 23"            | See Cutting Chart |

### B132S CUTTING CHART

| FREQUENCY | WHIP<br>LENGTH     | FREQUENCY | WHIP<br>LENGTH     | FREQUENCY | WHIP<br>LENGTH     |
|-----------|--------------------|-----------|--------------------|-----------|--------------------|
| 132 MHz   | 19 $\frac{3}{8}$ " | 156 MHz   | 16"                | 220 MHz   | 10 $\frac{1}{2}$ " |
| 134 MHz   | 19"                | 158 MHz   | 15 $\frac{5}{8}$ " | 230 MHz   | 10 $\frac{1}{8}$ " |
| 136 MHz   | 18 $\frac{1}{2}$ " | 160 MHz   | 15 $\frac{5}{8}$ " | 240 MHz   | 9 $\frac{3}{4}$ "  |
| 138 MHz   | 18 $\frac{1}{8}$ " | 162 MHz   | 15"                | 250 MHz   | 9 $\frac{1}{4}$ "  |
| 140 MHz   | 17 $\frac{7}{8}$ " | 164 MHz   | 14 $\frac{7}{8}$ " | 406 MHz   | 5 $\frac{5}{8}$ "  |
| 142 MHz   | 17 $\frac{5}{8}$ " | 166 MHz   | 14 $\frac{5}{8}$ " | 425 MHz   | 4 $\frac{1}{8}$ "  |
| 144 MHz   | 17 $\frac{1}{2}$ " | 168 MHz   | 14 $\frac{1}{2}$ " | 450 MHz   | 3 $\frac{5}{8}$ "  |
| 146 MHz   | 17 $\frac{1}{4}$ " | 170 MHz   | 14 $\frac{3}{8}$ " | 475 MHz   | 3 $\frac{1}{8}$ "  |
| 148 MHz   | 17"                | 172 MHz   | 14 $\frac{1}{8}$ " | 500 MHz   | 3"                 |
| 150 MHz   | 16 $\frac{7}{8}$ " | 174 MHz   | 14"                | 525 MHz   | 3 $\frac{3}{4}$ "  |
| 152 MHz   | 16 $\frac{1}{2}$ " | 200 MHz   | 11 $\frac{1}{2}$ " |           |                    |
| 154 MHz   | 16 $\frac{1}{4}$ " | 210 MHz   | 11"                |           |                    |

ANT-DS-B132S 0809

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