



Laird Connectivity'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 injected 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 AND BENEFITS

- High performance wide-band mobile antenna
- Special UV-treated radome, resists sun damage
- Easy installation with optional NMO mounts
- 100% tested on a network analyzer
- Field tunable to your specific frequency requirement (cutting chart comes with the antenna)
- 1/2 wave design for both ground plane and no ground plane installations

APPLICATIONS

- Public safety
- Transportation
- Utility
- Military mode

ELECTRICAL SPECIFICATIONS

| | |
|------------------------------|-------------------------|
| Operating Frequency (MHz) | 132-174 (field-tunable) |
| VSWR | <2.0:1 |
| Gain (dBi) | 2.4 |
| Bandwidth (MHz) | 23 |
| Pattern | Omnidirectional |
| Nominal Impedance (Ohms) | 50 |
| Max Power - Ambient 25°C (W) | 100 |
| Polarization | Vertical |

MECHANICAL SPECIFICATIONS

| | |
|--------------------------------------|---|
| Whip length at 132 MHz – cm (inches) | ~ 102 (40) |
| Diameter – mm (inches) | 36.7 (1.45) |
| Weight – kg (lbs.) | 0.44 (1.2) |
| Mounting Options | NMO Mountable, Ground plane & No Ground Plane surfaces |
| Radiator Material | 0.125" diameter, 17-7PH stainless steel whip |
| Spring Material (spring models only) | Stainless steel tempered spring |
| Base housing material | Chrome-plated brass top and bottom bushings with injection molded ABS plastic |
| Lightning Protection | |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------------|-----------|
| Wind Survival – km/hr (mph) | 161 (100) |
| Material Substance Compliance | RoHS |

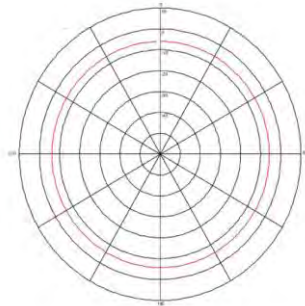
CONFIGURATION

| PART NUMBER | DESCRIPTION | CONNECTOR |
|-------------|---|----------------------------------|
| B1322W | B-coil wide-band antenna (chrome) | 1 1/8" 18 thread (NMO) mountable |
| BB1322W | B-coil wide-band antenna (black) | 1 1/8" 18 thread (NMO) mountable |
| B1322WS | B-coil wide-band antenna (chrome) w/ spring | 1 1/8" 18 thread (NMO) mountable |
| BB1322WS | B-coil wide-band antenna (black) w/ spring | 1 1/8" 18 thread (NMO) mountable |

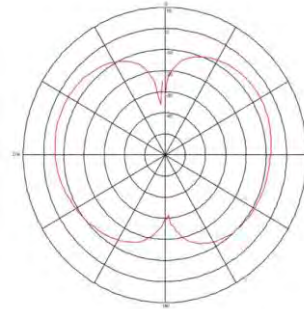
RADIATION PATTERNS

132 MHz

Azimuth

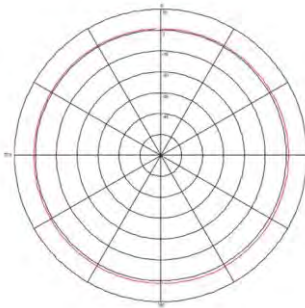


Elevation

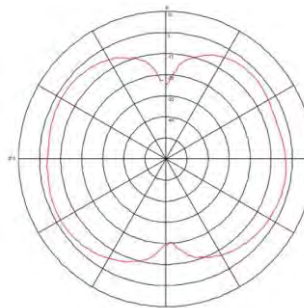


153 MHz

Azimuth

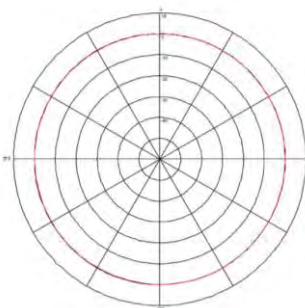


Elevation

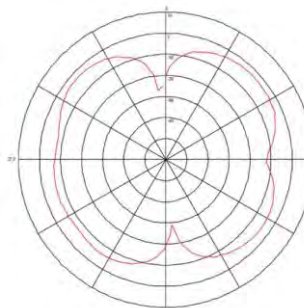


174 MHz

Azimuth



Elevation



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