



### 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.

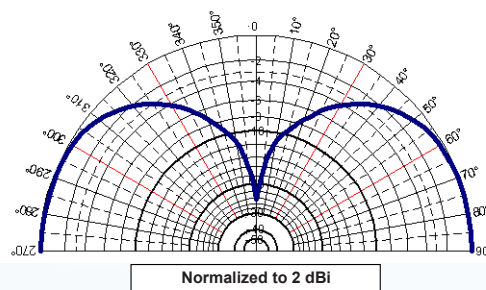
#### FEATURES

- High performance mobile antenna
- No ground plane
- Special UV treated radome, resists sun damage
- Easy installation with optional NMO Mounts
- 100% tested on a network analyzer

#### MARKETS

- Public safety
- Transportation
- Utility
- Military mobile

### ANTENNA PATTERNS



Elevation Pattern

### global solutions: local support™

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# Mobile Load Coil Antenna

## Standard B1442N

### SPECIFICATIONS

ELECTRICAL	
Frequency range	144-174 MHz
VSWR	< 2.0:1 Max
Nominal gain	2 dBi
Maximum power	100 W
Nominal impedance	50 $\Omega$
Polarization	Vertical
Pattern	Omnidirectional
Half-power beamwidth (Elevation° x Azimuth°)	110° x 360°
Coaxial cable length & type	None
Terminations	NMO
Noise suppressor	BlackHawk NS1535 1-35 VOLT, 15 amp Noise suppressor (Sold Separately)
Ground plane requirements	No Ground Plane

MECHANICAL	
Color	B1442N - Black with chrome BB1442N - Black BW1442N - White
Height	See chart
Diameter	1.45"
Weight	< 0.5 lb
Rated wind velocity	100mph (161kph)
Wind resistance	0.02 sq. ft.
Mounting information (sold separately)	NMO mountable

### B1442N CUTTING CHART

FREQUENCY	WHIP LENGTH	FREQUENCY	WHIP LENGTH
144 MHz	44"	158 MHz	35-1/2"
146 MHz	42-1/2"	160 MHz	34-1/2"
148 MHz	41-1/2"	162 MHz	33-1/2"
150 MHz	40-1/4"	164 MHz	32-3/4"
152 MHz	39"	166 MHz	32"
154 MHz	38"	168 MHz	31-1/2"
156 MHz	37"	170 MHz	31"

ANT-DS-B1442N 0310

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