



## 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.

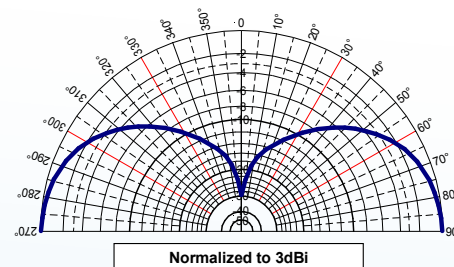
### FEATURES

- High performance mobile antenna
- 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



Normalized to 3dBi

Elevation Pattern

### global solutions: local support.™

Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12  
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)



Innovative **Technology**  
for a **Connected** World

# Mobile Load Coil Antenna Standard B1443

## SPECIFICATIONS

ELECTRICAL	
Frequency range	144-174 MHz
VSWR	< 2.0:1 Max
Nominal gain	3 dBi
Maximum power	100 W
Nominal impedance	50 Ω
Polarization	Vertical
Pattern	Omnidirectional
Half-power beamwidth (Elevation° x Azimuth°)	70° x 360°
Coaxial cable length & type	None
Terminations	NMO
Noise suppressor	BlackHawk NS1535 1-35 VOLT, 15 amp Noise suppressor (Sold Separately)

MECHANICAL	
Color	B1443 - Black with chrome BB1443 - Black BW1443 - White
Height	See chart
Diameter	1.45"
Weight	< 0.5 lb
Rated wind velocity	125mph (210kph)
Rated wind velocity (with 0.5" radial ice)	85mph (137kph)
Lateral thrust @ 125mph wind velocity	57lbs (26kg)
Wind resistance	0.02 sq. ft.
Mounting information (sold separately)	NMO mountable

## B1443 CUTTING CHART

FREQUENCY	WHIP LENGTH	FREQUENCY	WHIP LENGTH
132 MHz	54-5/8"	154 MHz	43-3/4"
134 MHz	53-1/2"	156 MHz	42-7/8"
136 MHz	52-3/8"	158 MHz	42-1/8"
138 MHz	51-1/4"	160 MHz	41-1/4"
140 MHz	50-1/4"	162 MHz	40-1/2"
142 MHz	49-3/8"	164 MHz	39-1/2"
144 MHz	48-1/8"	166 MHz	38-3/4"
146 MHz	47-1/4"	168 MHz	38"
148 MHz	46-3/8"	170 MHz	37-1/8"
150 MHz	45-1/2"	172 MHz	36-3/8"
152 MHz	44-7/8"	174 MHz	35-7/8"

ANT-DS-B1443 0310

All information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2010 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.