



### 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 injected 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 wide band mobile antenna
- High gain, wideband antenna does not require field tuning
- Special UV treated radome, resists sun damage
- Easy installation with optional NMO Mounts
- 100% tested on a network analyzer

#### MARKETS

- Public safety
- Transportation
- Utility

### SPECIFICATIONS

ELECTRICAL		MECHANICAL	
Frequency range	380-520 MHz	B3803W	9.25 in (235 mm)
Peak gain	3 dBi	BB3803W	
Efficiency	High: 89%; Avg: 84%	B3803WS	9.9 in (252 mm)
Azimuth bandwidth at half power	360°	BB3803WS	
Elevation bandwidth at half power (815 MHz)	100°	B3803WR	9.125 in (232 mm)
Pattern	Omnidirectional	BB3803WR	
Maximum Power	200 Watts	Diameter	1.44 in (36.6 mm)
Nominal Impedance	50 Ω	Operational Temperature	-31°F to +176°F (-35°C to +80°C)
Polarization	Vertical	Storage Temperature	-31°F to +176°F (-35°C to +80°C)
VSWR	≤ 2:1	Termination	NMO
		Mounting Information	Ground Plane Dependent
		Color	Black or Chrome
		Radome Material	ABS

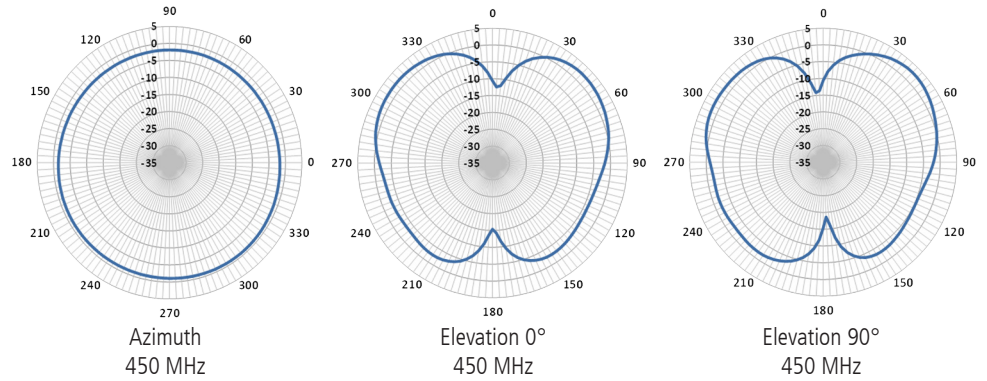
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## ANTENNA PATTERNS AND VSWR CHART



VSWR Plot (Measured on 2' x 2' GP)

### ANTENNA ORDERING GUIDE

#### BB3803WR =

B Mobile Load Coil, Black Chrome Finish, 380-520mhz, 3 dBi Gain, Rubber Spring

<b>B</b>	<b>Antenna Style</b>	B = B Mobile Load Coil
<b>B</b>	<b>Finish</b>	Blank = Chrome B = Black
<b>380</b>	<b>Frequency</b>	Initial frequency rating component of part number
<b>3</b>	<b>Gain</b>	3 = 3 dBi
<b>W</b>		
<b>R</b>	<b>Spring Option</b>	Blank = Ferrule S = SS Spring R = Rubber Spring

### ANT-DS-UHF-Wideband 0613

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