

UHF Wideband Antenna B3803W



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.

MARKETS

• Utility

• Public safety

• Transportation

FEATURES **V**ROHS

- 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

SPECIFICATIONS

ELECTRICAL			
Frequency range	380-520 MHz		
Peak gain	3 dBi		
Efficiency	High: 89%; Avg: 84%		
Azimuth bandwidth at half power	360°		
Elevation bandwidth at half power (815 MHz)	100°		
Pattern	Omnidirectional		
Maximum Power	200 Watts		
Nominal Impedance	50 Ω		
Polarization	Vertical		
VSWR	≤ 2:1		

MECHANICAL			
Antenna Height	B3803W	9.25 in (235 mm)	
	BB3803W		
	B3803WS	9.9 in (252 mm)	
	BB3803WS		
	B3803WR	9.125 in (232 mm)	
	BB3803WR		
Diameter		1.44 in (36.6 mm)	
Operational Temperature		-31°F to +176°F	
		(-35°C to +80°C)	
Storage Temperature		-31°F to +176°F	
		(-35°C to +80°C)	
Termination		NMO	
Mounting Information		Ground Plane Dependent	
Color		Black or Chrome	
Radome Material		ABS	

Americas: +1.847 839.6907 IAS-AmericasEastSales@lairdtech.com

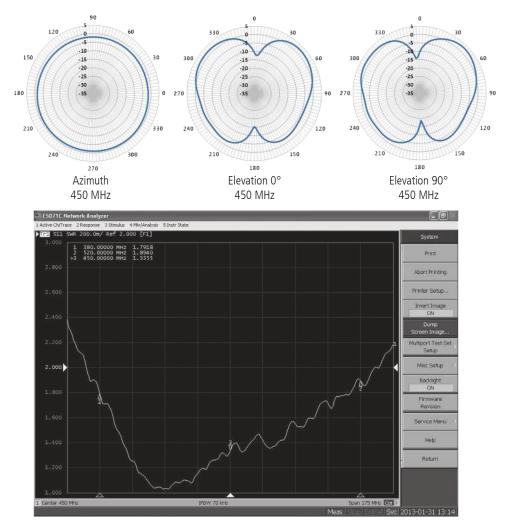
Europe: +44.(0).1628.858941 IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127 IAS-AsiaSales@lairdtech.com

www.lairdtech.com



UHF Wideband Antenna B3803W



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

ANT-DS-UHF-Wideband 0613

Any 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 use; since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies materials rests with the end use; since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies materials rests with the end use; since Laird Technologies materials rests with the end use; since Laird Technologies and Ital Technologies and Ital Technologies and Ital Technologies and Ital Technologies materials rests with the end use; since Laird Technologies and Technologies and Ital Technologies and Ital Technologies and Technologies and Ital Technologi