



## UHF WIDEBAND ANTENNA

### B(B)3803W

### PREMIUM MOBILE LOAD COIL ANTENNAS ARE INDUSTRY STANDARD

Our 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 TE Connectivity 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

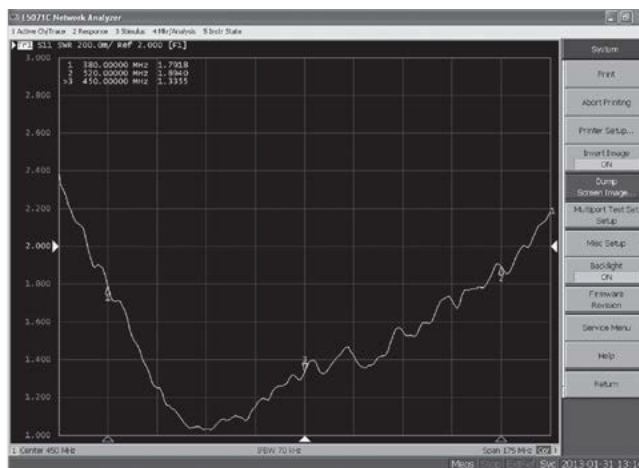
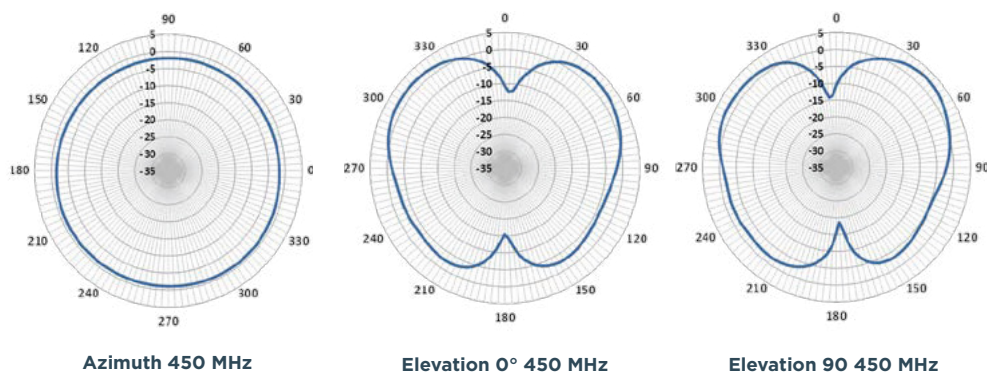
### ELECTRICAL SPECIFICATION

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 $\Omega$
Polarization	Vertical
VSWR	$\leq 2:1$

## MECHANICAL SPECIFICATION

Antenna Height	B3803W	9.25 in (235 mm)
	B3803WS	9.9 in (252 mm)
	BB3803WS	
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	

## ANTENNA PATTERNS AND VSWR CHART



VSWR Plot (Measured on 2 x 2 GP)

## ANTENNA ORDERING GUIDE

### MECHANICAL SPECIFICATION

BB3803WR =  
B Mobile Load Coil, Black Chrome Finish, 380-520mhz, 3 dBi Gain, Rubber Spring

B	Antenna Style	B = B Mobile Load Coil
B	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

### TE TECHNICAL SUPPORT CENTER

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