



LAIRD TECHNOLOGIES' NEW WIDEBAND, LOWBAND ANTENNA FOR PUBLIC SAFETY

The WPC39S0B-001 is a public safety antenna designed to work at sustained high vehicle speeds and with a heavy-duty cycle (10 minutes @ 100W). It operates in the 39 to 46 MHz frequency band with 2 dBi gain, omnidirectional pattern, and vertical polarization. The antenna possesses excellent return loss with no tuning required, supports wide separation of XMT and RCV frequencies, and supports with more channel pairs.

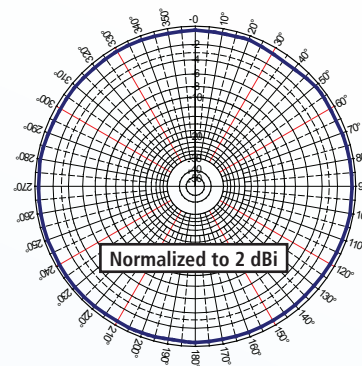
FEATURES

- Operates from 39 MHz to 46 MHz, with no tuning required
- Excellent return loss
- Designed to operate at high vehicle speeds with a heavy duty cycle (10 minutes @ 100W)
- Specially designed to dissipate heat during heavy duty cycles

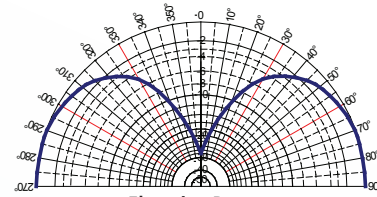
BENEFITS

- Wide bandwidth allows for wide separation of transmit and receive frequencies
- Interoperability with other lowband users

ANTENNA PATTERNS



Azimuth Pattern



Elevation Pattern

VSWR PLOT

VSWR sweeps on a 4 ft by 4 ft metallic surface or car roof –

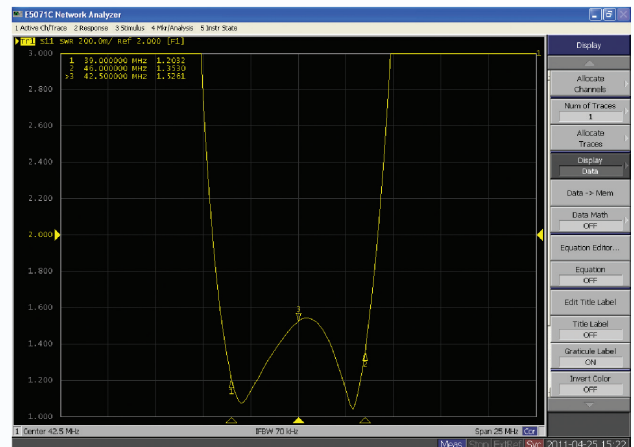
Primary Specification
(VSWR < 1.8:1)

Measure with additional
14-17 ft of RG58A/U

Marker 1: VSWR 1.2:1 @ 39 MHz

Marker 2: VSWR 1.4:1 @ 46 MHz

Marker 3: VSWR 1.5:1 @ 42.5 MHz



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ELECTRICAL SPECIFICATIONS

| PARAMETER | WPC39S0B-001 |
|---------------------------------|--|
| Frequency Range | 39 - 46 MHz |
| VSWR | < 1.8:1 |
| Nominal Gain | 2 dBi |
| Power | 100 W |
| Maximum Power | 100 W per 8 minutes of continuous power (radio key time) |
| Nominal Impedance | 50 ohm |
| Polarization | Vertical |
| Pattern (Elevation° x Azimuth°) | Omnidirectional |
| Half-Power Beamwidth | 110° x 360° |
| Noise Suppressor | BlackHawk NS1535, 1-35 VOLT, 15Amp Noise Suppressor |

MECHANICAL SPECIFICATIONS

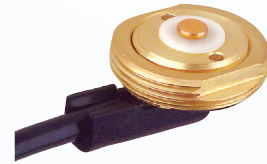
| PARAMETER | WPC39S0B-001 |
|---|-----------------------|
| Height | 63-7/8 in |
| Diameter | 1.44 in |
| Weight | 1 lb |
| Equivalent Flat Plate Area (wind resistance in ft ²) | 0.025 ft ² |
| Coaxial Cable Length & Type | None |
| Termination | NMO |
| Mounting Info: <1000 MHz | PN: MB8, MAB8 |
| Mounting Info: DC to 6GHz | PN: MB195 |

ORDERING INFORMATION

| Model | Description | Style | Color |
|--------------|--------------------------|--------|-------|
| WPC39S0B-001 | WHIP, WB, 1/4, 39-46 MHz | Spring | Black |



BlackHawk NS1535



MB8 Mount

ANT-DS-WPC39S0B-001 0313

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