



## B132S

### Spring Mount Antenna 132-525 MHz

TE's 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 TE the obvious choice for quality and long-lasting value for demanding mobile radio communications.

### FEATURES AND BENEFITS

- Easily removable rod allows the mount to stay water tight during car washes
- O-ring built into the base creates a weather-tight seal
- ABS material is injection molded directly around the solid brass inserts for a virtually indestructible housing that will not leak or disassemble
- All silver soldered joints provide an electrically and mechanically secure connection

### APPLICATIONS

- Public safety
- Transportation
- Utility
- Military mobile

#### ELECTRICAL SPECIFICATION

|  |   |
|--|---|
| Operating Frequency (MHz)              | 132 - 525   |
| Number of Ports                        | 1   |
| VSWR - Max                             | <2.0:1  |
| Gain (dBi)                             | 2   |
| Nominal Impedance (Ohms)               | 50  |
| Max Power - Ambient 25°C (W)           | 200   |
| Polarization                           | Vertical  |
| Vertical Plane 3 dB Beamwidth Port 1   | 110°  |
| Horizontal Plane 3 dB Beamwidth Port 1 | 360°  |
| Noise Suppressor                       | BlackHawk NS1535 1-35 VOLT, 15 Amp Noise Suppressor (Sold Separately) |

## MECHANICAL SPECIFICATIONS

|  |                         |
|--|-------------------------|
| Dimensions - diameter x height - mm (inches) | 584 x 36.58 (23 x 1.44) |
| Weight - kg (lbs.)                           | 2.27 (<0.5)             |
| Cable Type                                   | Not Included            |

## ENVIRONMENTAL SPECIFICATIONS

|   |                              |
|---|------------------------------|
| Operating Environment (Indoor or Outdoor) | Outdoor                      |
| Operating Temperature - °C (°F)           | -30 to +85°C (-22 to +185°F) |
| Wind Resistance - ft2                     | 0.023                        |

## CONFIGURATION

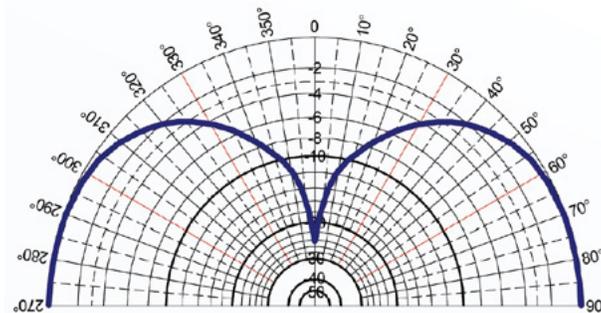
| PART NUMBER | DESCRIPTION                                 | FINISH | HEIGHT | TUNING            |
|-------------|---|--------|--------|-------------------|
| B132S       | 132-525 MHz, Base Loaded 1/4 Wave Broadband | Chrome | 23"    | See Cutting Chart |
| BB132S      | 132-525 MHz, Base Loaded 1/4 Wave Broadband | Black  | 23"    | See Cutting Chart |

## B132S CUTTING / TUNING CHART

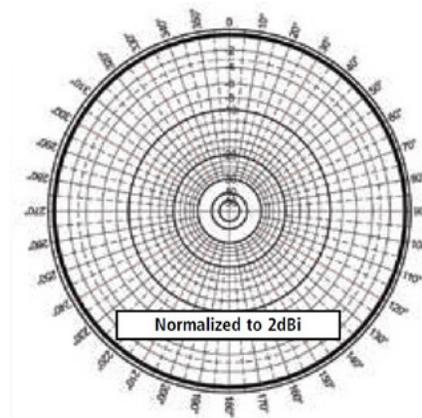
| FREQUENCY | WHIP LENGTH | FREQUENCY | WHIP LENGTH | FREQUENCY | WHIP LENGTH |
|-----------|-------------|-----------|-------------|-----------|-------------|
| 132       | 19 3/8"     | 156       | 16"         | 220       | 10 1/52"    |
| 134       | 19"         | 158       | 15 5/8"     | 230       | 10 1/8"     |
| 136       | 18 1/2"     | 160       | 15 3/8"     | 240       | 9 3/4"      |
| 138       | 18 1/8"     | 162       | 15"         | 250       | 9 1/4"      |
| 140       | 17 7/8"     | 164       | 14 7/8"     | 406       | 5 5/8"      |
| 142       | 17 5/8"     | 166       | 14 5/8"     | 425       | 4 1/8"      |
| 144       | 17 1/2"     | 168       | 14 1/2"     | 450       | 3 5/8"      |
| 146       | 17 1/4"     | 170       | 14 3/8"     | 475       | 3 1/8"      |
| 148       | 17"         | 172       | 14 1/8"     | 500       | 3"          |
| 150       | 16 7/8"     | 174       | 14"         | 525       | 3 3/4"      |
| 152       | 16 1/2"     | 200       | 11 1/2"     |           |             |
| 154       | 16 1/4"     | 210       | 11"         |           |             |

## RADIATION PATTERNS

### Elevation Pattern (Y, Z, or H-Plane)



### Elevation Pattern (Y, Z, or H-Plane)



### TE TECHNICAL SUPPORT CENTER

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