



## Lowband Quarter Wave Antennas

PCTEL's MLB lowband antennas are a popular choice for State Patrol, Land Management and serious CB applications. They provide superior performance for a variety of lowband applications.

### Features

- The matching coil is supported by a low-loss coil form to withstand the heaviest shocks
- Durable, attractive housings designed to deter moisture ingress for long lasting, reliable operation
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts
- Field tunable within specified frequency range



MLB4700

### STANDARD CONFIGURATION

| Model*         | Optional Spring Available* | Recommended Mounts (Sold Separately)                      |
|----------------|----------------------------|---|
| MLB2700        | No                         | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLB3000        | No                         | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLB3400        | No                         | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLBDC3700(S)** | Yes                        | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLB4000        | No                         | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLBDC4000(S)** | Yes                        | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLBDC4700(S)** | Yes                        | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |
| MLB4700(S)     | Yes                        | Mates with 1-1/8"-18 thread mounts, including 3/4" mounts |

### ELECTRICAL SPECIFICATIONS

| Model*         | Frequency Range | Gain  | VSWR    | Average Power | Nominal Impedance | Antenna Type                |
|----------------|-----------------|-------|---------|---------------|-------------------|-----------------------------|
| MLB2700        | 27-31 MHz       | Unity | < 1.5:1 | 200 watts     | 50 ohm            | Base Loaded 1/4 wave        |
| MLB3000        | 27-31 MHz       | Unity | < 1.5:1 | 200 watts     | 50 ohm            | Base Loaded 1/4 wave        |
| MLB3400        | 34-40 MHz       | Unity | < 1.5:1 | 200 watts     | 50 ohm            | Base Loaded 1/4 wave        |
| MLBDC3700(S)** | 37-40 MHz       | Unity | < 1.5:1 | 500 watts     | 50 ohm            | Base Loaded Tapped 1/4 Wave |
| MLB4000        | 40-47 MHz       | Unity | < 1.5:1 | 200 watts     | 50 ohm            | Base Loaded 1/4 wave        |
| MLBDC4000(S)** | 40-47 MHz       | Unity | < 1.5:1 | 500 watts     | 50 ohm            | Base Loaded Tapped 1/4 Wave |
| MLBDC4700(S)** | 47-50 MHz       | Unity | < 1.5:1 | 500 watts     | 50 ohm            | Base Loaded Tapped 1/4 Wave |
| MLB4700(S)     | 47-54 MHz       | Unity | < 1.5:1 | 200 watts     | 50 ohm            | Base Loaded 1/4 wave        |

### MECHANICAL SPECIFICATIONS

| Model*         | Approximate Whip Length at Lowest Frequency | Temperature Range | Radiator   | Spring Material | Housing Material        |
|----------------|---|-------------------|------------|-----------------|-------------------------|
| MLB2700        | 52"   | -40°C to +85°C    | 17-7 PH SS | N/A             | Black UV-Stable Polymer |
| MLB3000        | 52"   | -40°C to +85°C    | 17-7 PH SS | N/A             | Black UV-Stable Polymer |
| MLB3400        | 52"   | -40°C to +85°C    | 17-7 PH SS | N/A             | Black UV-Stable Polymer |
| MLBDC3700(S)** | 52"   | -40°C to +85°C    | 17-7 PH SS | SST             | Black UV-Stable Polymer |
| MLB4000        | 52"   | -40°C to +85°C    | 17-7 PH SS | N/A             | Black UV-Stable Polymer |
| MLBDC4000(S)** | 52"   | -40°C to +85°C    | 17-7 PH SS | SST             | Black UV-Stable Polymer |
| MLBDC4700(S)** | 52"   | -40°C to +85°C    | 17-7 PH SS | SST             | Black UV-Stable Polymer |
| MLB4700(S)     | 52"   | -40°C to +85°C    | 17-7 PH SS | SST             | Black UV-Stable Polymer |

\* To select spring option, add suffix "S" to part number. Example: MLB4700S \*\* This model is DC grounded