



Laird Technologies continues to develop and improve all land mobile radio antenna products. Years of refinement in the mechanical and electrical design of load coil products have resulted in the most technically advanced antennas on the market. These mobile antennas are designed and built for demanding applications and typically outlast the cars they are mounted on. The antennas are manufactured in over 100 variations and each model is permanently marked for model and frequency. No ground plane antennas provide flexibility in any mounting application, while dual and wide band models attain full value out of today's advanced radios. Please contact Laird Technologies for availability on additional products and mobile applications.

## FEATURES

- Gold plated contact provides the most corrosion resistance and best power transfer over time
- ABS material is injection molded directly around the solid brass inserts for a virtually indestructible load coil housing that will not leak or disassemble
- Stainless steel shock spring or elastomer spring options dampens vibration and will not rust
- O-ring built into the base provides a weather-tight seal with gold push pin contact for best power transfer over time

## APPLICATIONS

- Police Cruisers
- Municipal Vehicles
- Emergency Vehicles
- Industrial Vehicles

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| Model                                | Description                       | Frequency Range | Center  | Gain Freq | Overall Length | Whip Style       |
|--------------------------------------|-----------------------------------|-----------------|---------|-----------|----------------|------------------|
| <b>Lowband DC Ground Base Models</b> |                                   |                 |         |           |                |                  |
| C27                                  | 1/4 Wave                          | 26.75-31 MHz    | Tunable | Unity     | 52.5"          | 49" Tapered      |
| C30                                  | 1/4 Wave                          | 30 - 35 MHz     | Tunable | Unity     | 52.5"          | 49" Tapered      |
| C34                                  | 1/4 Wave                          | 34 - 37 MHz     | Tunable | Unity     | 52.5"          | 49" Tapered      |
| C37                                  | 1/4 Wave                          | 37 - 40 MHz     | Tunable | Unity     | 52.5"          | 49" Tapered      |
| C40S                                 | 1/4 Wave w/Spring                 | 40 - 47 MHz     | Tunable | Unity     | 52.5"          | 49" Tapered      |
| C40                                  | 1/4 Wave                          | 40 - 47 MHz     | Tunable | Unity     | 52.5"          | 49" Tapered      |
| C47                                  | 1/4 Wave                          | 47 - 50 MHz     | Tunable | Unity     | 52.5"          | 49" Tapered      |
| <b>VHF Models</b>                    |                                   |                 |         |           |                |                  |
| B66                                  | 1/4 Wave Broadband                | 66 - 174 MHz    | Tunable | Unity     | 51"            | 49" Tapered      |
| B132                                 | 1/4 Wave Broadband                | 132 - 928 MHz   | Tunable | Unity     | 23"            | 21" Straight     |
| B132S                                | 1/4 Wave Broadband                | 132 - 525 MHz   | Tunable | Unity     | 23"            | 21" Straight     |
| B1322N                               | NGP Base Loaded 1/2 Wave          | 132 - 174 MHz   | Tunable | 2.4 dBi   | 57"            | 55" Tapered      |
| B1322W                               | 1/4 Wave Wideband                 | Variable*       | Tunable | Unity     | 23"            | 21" Straight     |
| B1322WS                              | 1/4 Wave Wideband w/spring        | Variable*       | Tunable | Unity     | 23"            | 21" Straight     |
| B1323S                               | 5/8 Wave w/Spring                 | 132 - 174 MHz   | Tunable | 3 dBi     | 59"            | 55" Tapered      |
| B1323                                | 5/8 Wave                          | 132 - 174 MHz   | Tunable | 3 dBi     | 57"            | 55" Tapered      |
| B1442NS                              | NGP Base Loaded 1/2 Wave w/Spring | 144 - 174 MHz   | Tunable | 2.4 dBi   | 53"            | 49" Tapered      |
| B1442N                               | NGP Base Loaded 1/2 Wave          | 144 - 174 MHz   | Tunable | 2.4 dBi   | 51"            | 49" Tapered      |
| B1443                                | 5/8 Wave                          | 144 - 174 MHz   | Tunable | 3 dBi     | 51-3/8"        | 49" Tapered      |
| B1443S                               | 5/8 Wave w/Spring                 | 144 - 174 MHz   | Tunable | 3 dBi     | 53-3/8"        | 49" Tapered      |
| B2003                                | 5/8 Wave                          | 200 - 225 MHz   | Tunable | 3 dBi     | 35"            | 33" Straight     |
| B2503                                | 5/8 Wave                          | 250 - 280 MHz   | Tunable | 3 dBi     | 26.5"          | 24-1/2" Straight |
| B2002N                               | NGP Base Loaded 1/2 Wave          | 200 - 225 MHz   | Tunable | 2.4 dBi   | 31.5"          | 29-1/2" Straight |



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# Mobile Load Coil Antennas

| Model             | Description                    | Frequency Range | Center  | Gain Freq | Overall Length | Whip Style         |
|-------------------|--------------------------------|-----------------|---------|-----------|----------------|--------------------|
| <b>UHF Models</b> |                                |                 |         |           |                |                    |
| B4063             | 5/8 Wave                       | 406 - 430 MHz   | Tunable | 3 dBi     | 15"            | 13" Straight       |
| B4303             | 5/8 Wave                       | 430 - 450 MHz   | Tunable | 3 dBi     | 14"            | 11-13/16" Straight |
| B4503             | 5/8 Wave                       | 450 - 470 MHz   | Tunable | 3 dBi     | 13"            | 11" Straight       |
| B4703             | 5/8 Wave                       | 470 - 490 MHz   | Tunable | 3 dBi     | 12.5"          | 10-11/16" Straight |
| B4903             | 5/8 Wave                       | 490 - 512 MHz   | Tunable | 3 dBi     | 12.5"          | 10-1/2" Straight   |
| B4065C            | Closed Coil Collinear          | 406 - 430 MHz   | Tunable | 5 dBi     | 39.5"          | 37-3/8" Collinear  |
| B4305C            | Closed Coil Collinear          | 430 - 450 MHz   | Tunable | 5 dBi     | 36"            | 34-1/8" Collinear  |
| B4505CS           | Closed Coil Collinear w/Spring | 450 - 470 MHz   | Tunable | 5 dBi     | 37"            | 32-3/4" Collinear  |
| B4505C            | Closed Coil Collinear          | 450 - 470 MHz   | Tunable | 5 dBi     | 35"            | 32-3/4" Collinear  |
| B4705C            | Closed Coil Collinear          | 470 - 490 MHz   | Tunable | 5 dBi     | 33"            | 31-1/4" Collinear  |
| B4905C            | Closed Coil Collinear          | 490 - 512 MHz   | Tunable | 5 dBi     | 31"            | 29-1/8" Collinear  |
| B4062N            | NGP 1/2 Wave                   | 406 - 430 MHz   | Tunable | 2.4 dBi   | 14.31"         | 11-9/16" Straight  |
| B4302N            | NGP 1/2 Wave                   | 430 - 450 MHz   | Tunable | 2.4 dBi   | 12.5"          | 10-5/8" Straight   |
| B4502N            | NGP 1/2 Wave                   | 450 - 470 MHz   | Tunable | 2.4 dBi   | 12.5"          | 10-5/16" Straight  |
| B4065CN           | NGP Closed Coil Collinear      | 406 - 430 MHz   | Tunable | 5 dBi     | 36"            | 34-1/8" Collinear  |
| B4305CN           | NGP Closed Coil Collinear      | 430 - 450 MHz   | Tunable | 5 dBi     | 35"            | 32-7/8" Collinear  |
| B4505CN           | NGP Closed Coil Collinear      | 450 - 470 MHz   | Tunable | 5 dBi     | 32.5"          | 30-1/2" Collinear  |
| B4705CN           | NGP Closed Coil Collinear      | 470 - 490 MHz   | Tunable | 5 dBi     | 30.5"          | 28-7/16" Collinear |
| B4905CN           | NGP Closed Coil Collinear      | 490 - 512 MHz   | Tunable | 5 dBi     | 29"            | 27-1/8" Collinear  |



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# Mobile Load Coil Antennas

| Model                        | Description                | Frequency Range | Center Freq | Gain  | Overall Length |
|------------------------------|----------------------------|-----------------|-------------|-------|----------------|
| <b>Wideband - Lowband</b>    |                            |                 |             |       |                |
| WPC39S0B-001                 | Omnidirectional Heavy Duty | 39 - 46 MHz     | 42.5 MHz    | 2 dBi | 63-7/8"        |
| <b>Wideband - VHF Models</b> |                            |                 |             |       |                |
| CW1320                       | End Fed 1/4 Wave           | 132 - 174 MHz   | Tunable     | Unity | 18-3/4"        |
| CW1443                       | Base Loaded 5/8 Wave       | 144 - 156 MHz   | 150 MHz     | 3 dBi | 50-1/2"        |
| CW1503                       | Base Loaded 5/8 Wave       | 150 - 162 MHz   | 156 MHz     | 3 dBi | 48-1/2"        |
| CW1533                       | Base Loaded 5/8 Wave       | 153 - 169 MHz   | 161 MHz     | 3 dBi | 49-1/2"        |
| CW1623                       | Base Loaded 5/8 Wave       | 162 - 174 MHz   | 168 MHz     | 3 dBi | 43-1/2"        |
| <b>Wideband - UHF Models</b> |                            |                 |             |       |                |
| CW4065C                      | Closed Coil Collinear      | 406 - 430 MHz   | 418 MHz     | 5 dBi | 37-1/2"        |
| CW4405C                      | Closed Coil Collinear      | 440 - 470 MHz   | 455 MHz     | 5 dBi | 35-1/2"        |

## ANT-DS-Mobile-Load-Coil 1212

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