

Mobile Load Coil Antennas

B, C, and CW Series

Laird External Antennas 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 External Antennas for availability on additional products and mobile applications.

FEATURES AND BENEFITS

- 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

MODEL	DESCRIPTION	FREQUENCY RANGE	CENTER FREQUENCY	GAIN FREQUENCY	OVERALL LENGTH	WHIP STYLE
Low-band DC Ground Base Models						
C27	1/4 Wave Broadband	26.75-31 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered
C30	1/4 Wave Broadband	30-35 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered
C34	1/4 Wave Broadband	34-37 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered
C37	1/4 Wave Broadband	37-40 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered
C40S	1/4 Wave w/ Spring	40-47 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered
C40	1/4 Wave Broadband	40-47 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered
C47	1/4 Wave Broadband	47-50 MHz	Tunable	Unity	133.4 cm (52.5 in.)	49" Tapered

MODEL	DESCRIPTION	FREQUENCY RANGE	CENTER FREQUENCY	GAIN FREQUENCY	OVERALL LENGTH	WHIP STYLE
VHF Models						
B66	1/4 Wave Broadband	66-174 MHz	Tunable	Unity	129.5 cm (51.0 in.)	49” Tapered
B132	1/4 Wave Broadband	132-928 MHz	Tunable	Unity	58.4 cm (23.0 in.)	21” Straight
B132S	1/4 Wave Broadband	132-525 MHz	Tunable	Unity	58.4 cm (23.0 in.)	21” Straight
B1322N	NGP Base Loaded 1/2 Wave	132-174 MHz	Tunable	2.4 dBi	144.8 cm (57.0 in.)	55” Tapered
B1322W	1/2 Wave Broadband	Variable*	Tunable	Unity	58.4 cm (23.0 in.)	21” Straight
B1322WS	1/2 Wave Broadband w/ Spring	Variable*	Tunable	Unity	58.4 cm (23.0 in.)	21” Straight
WPB137S2. 4CN-001	1/2 Wave Broadband	137 MHz	Center Tuned	2.4 dBi	114.6 cm (45.12 in.)	43” Tapered
WPB137S 0CS-001	1/4 Wave w/ Spring	137 MHz	Center Tuned	Unity	54 cm (21.25 in)	17.625” Straight
B1323S	5/8 Wave w/ Spring	132-174 MHz	Tunable	3 dBi	149.9 cm (59.0 in.)	55” Tapered
B1323	5/8 Wave	132-174 MHz	Tunable	3 dBi	144.8 cm (57.0 in.)	55” Tapered
B1442NS	NGP Base Loaded 1/2 Wave w/ Spring	144-174 MHz	Tunable	2.4 dBi	134.6 cm (53.0 in.)	49” Tapered
B1442N	NGP Base Loaded 1/2 Wave	144-174 MHz	Tunable	2.4 dBi	129.5 cm (51.0 in.)	49” Tapered
B1443	5/8 Wave	144-174 MHz	Tunable	3 dBi	130.5 cm (51-3/8 in.)	49” Tapered
B1443S	5/8 Wave w/ Spring	144-174 MHz	Tunable	3 dBi	135.6 cm (53-3/8 in.)	49” Tapered
B2003	5/8 Wave	200-225 MHz	Tunable	3 dBi	88.9 cm (35.0 in.)	33” Straight
B2503	5/8 Wave	250-280 MHz	Tunable	3 dBi	67.3 cm (26.5 in.)	24-1/2” Straight
B2002N	NGP Base Loaded 1/2 Wave	200-225 MHz	Tunable	2.4 dBi	80.0 (31.5 in.)	24-1/2” Straight
UHF Models						
B4063	5/8 Wave	406-430 MHz	Tunable	3 dBi	38.1 cm (15.0 in.)	13” Straight
B4303	5/8 Wave	430-450 MHz	Tunable	3 dBi	35.6 cm (14.0 in.)	11-13/16” Straight
B4503	5/8 Wave	450-470 MHz	Tunable	3 dBi	33.0 cm (13.0 in.)	11” Straight
B4703	5/8 Wave	470-490 MHz	Tunable	3 dBi	31.8 cm (12.5 in.)	10-11/16” Straight
B4903	5/8 Wave	490-512 MHz	Tunable	3 dBi	31.8 cm (12.5 in.)	10-1/2” Straight
B4065C	Closed Coil Collinear	406-430 MHz	Tunable	5 dBi	100.3 cm (39.5 in.)	37-3/8” Collinear
B4305C	Closed Coil Collinear	430-450 MHz	Tunable	5 dBi	91.4 cm (36.0 in.)	34-1/8” Collinear

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UHF Models						
B4063	5/8 Wave	406-430 MHz	Tunable	3 dBi	38.1 cm (15.0 in.)	13” Straight
B4303	5/8 Wave	430-450 MHz	Tunable	3 dBi	35.6 cm (14.0 in.)	11-13/16” Straight
B4503	5/8 Wave	450-470 MHz	Tunable	3 dBi	33.0 cm (13.0 in.)	11” Straight
B4703	5/8 Wave	470-490 MHz	Tunable	3 dBi	31.8 cm (12.5 in.)	10-11/16” Straight
B4903	5/8 Wave	490-512 MHz	Tunable	3 dBi	31.8 cm (12.5 in.)	10-1/2” Straight
B4065C	Closed Coil Collinear	406-430 MHz	Tunable	5 dBi	100.3 cm (39.5 in.)	37-3/8” Collinear
B4305C	Closed Coil Collinear	430-450 MHz	Tunable	5 dBi	91.4 cm (36.0 in.)	34-1/8” Collinear
B4505CS	Closed Coil Collinear w/ Spring	450-470 MHz	Tunable	5 dBi	94.0 cm (37.0 in.)	32-3/4” Collinear
B4505C	Closed Coil Collinear	450-470 MHz	Tunable	5 dBi	89.0 cm (35.0 in.)	32-3/4” Collinear
B4705C	Closed Coil Collinear	470-490 MHz	Tunable	5 dBi	83.9 cm (33.0 in.)	31-1/4” Collinear
B4905C	Closed Coil Collinear	490-512 MHz	Tunable	5 dBi	78.7 cm (31.0 in.)	29-1/8” Collinear
B4062N	NGP 1/2 Wave	406-430 MHz	Tunable	2.4 dBi	36.3 cm (14.31 in.)	10-5/8” Straight
B4302N	NGP 1/2 Wave	430-450 MHz	Tunable	2.4 dBi	31.8 cm (12.5 in.)	10-5/16” Straight
B4502N	NGP 1/2 Wave	450-470 MHz	Tunable	2.4 dBi	31.8 cm (12.5 in.)	34-1/8” Straight
B4065CN	NGP Closed Coil Collinear	406-430 MHz	Tunable	5 dBi	91.4 cm (36.0 in.)	34-1/8” Collinear
B4305CN	NGP Closed Coil Collinear	430-450 MHz	Tunable	5 dBi	89.0 cm (35.0 in.)	32-7/8” Collinear
B4505CN	NGP Closed Coil Collinear	450-470 MHz	Tunable	5 dBi	82.6 cm (32.5 in.)	30-1/2” Collinear
B4705CN	NGP Closed Coil Collinear	470-490 MHz	Tunable	5 dBi	77.4 cm (30.5 in.)	28-7/16” Collinear
B4905CN	NGP Closed Coil Collinear	490-512 MHz	Tunable	5 dBi	73.7 cm (29.0 in.)	27-1/8” Collinear
Dual-Band VHF/UHF Models						
C144-440C	Closed Coil Colinear	144-148 MHz 440-450 MHz	146 445	2 dBi 5 dBi	97.79 cm (38.5 in.)	35” Colinear
C144-440CS	Closed Coil Colinear with Spring	144-148 MHz 440-450 MHz	146 445	2 dBi 5 dBi	94.61 cm (37.25 in.)	33.75” Colinear
C150-450C	Closed Coil Colinear	150-174 MHz 450-470 MHz	162 460	2 dBi 5 dBi	83.43 (32.85 in.)	29.375” Colinear
C150-450CS	Closed Coil Colinear with Spring	150-174 MHz 450-470 MHz	162 460	2 dBi 5 dBi	80.264 (31.6 in.)	28.13” Colinear
CB144-440C	Closed Coil Colinear Black	144-148 MHz 440-450 MHz	146 445	2 dBi 5 dBi	97.79 cm (38.5 in.)	35” Colinear
CB144-440CS	Closed Coil Colinear Black with Spring	144-148 MHz 440-450 MHz	146 445	2 dBi 5 dBi	94.61 cm (37.25 in.)	33.75” Colinear
CB150-450CS	Closed Coil Colinear Black with Spring	150-174 MHz 450-47 MHz	146 445	2 dBi 5 dBi	83.43 (32.85 in.)	29.375” Colinear

MODEL	DESCRIPTION	FREQUENCY RANGE	CENTER FREQUENCY	GAIN FREQUENCY	OVERALL LENGTH	WHIP STYLE
Wideband – Lowband						
WPC39 S0B-001	Omnidirectional Heavy Duty	39-46 MHz	42.5 MHz	2 dBi	162.2 cm (63-7/8 in.)	58.5" Tampered Whip
Wideband – VHF Models						
CW1320	End Fed 1/4 Wave	132-174 MHz	Tunable	Unity	47.6 cm (18-3/4 in.)	16" Rod
CW1443	Base Loaded 5/8 Wave	144-156 MHz	150 MHz	3 dBi	128.2 cm (50.5 in.)	45" Tampered Whip
CW1503	Base Loaded 5/8 Wave	150-162 MHz	156 MHz	3 dBi	123.1 cm (48.5 in.)	43" Tampered Whip
CW1533	Base Loaded 5/8 Wave	153-169 MHz	161 MHz	3 dBi	125.7 cm (49.5 in.)	41" Tampered Whip
CW1623	Base Loaded 5/8 Wave	162-174 MHz	168 MHz	3 dBi	110.5 cm (43.5 in.)	40" Tampered Whip
Wideband – UHF Models						
CW4065C	Closed Coil Collinear	406-430 MHz	418 MHz	5 dBi	95.3 cm (37.5 in.)	33.125" Colinear Whip
CW4405C	Closed Coil Collinear	440-470 MHz	455 MHz	5 dBi	90.1 cm (35.5 in.)	31.75" Colinear Whip

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