

BMAX Molded Base Antennas

These antennas feature a rugged molded polymer base, plated spring-loaded contact pin and .100" diameter stainless steel whip for long-lasting, trouble-free operation. Models are available with open or closed coil rod, and can be ordered in all black finish. This series offers models for many types of wireless applications, including WiFi and WiMAX mobility, VHF and UHF land mobile radio, 700 Public Safety, 800 MHz and 900 MHz digital radio and AMPS/PCS voice/data support.

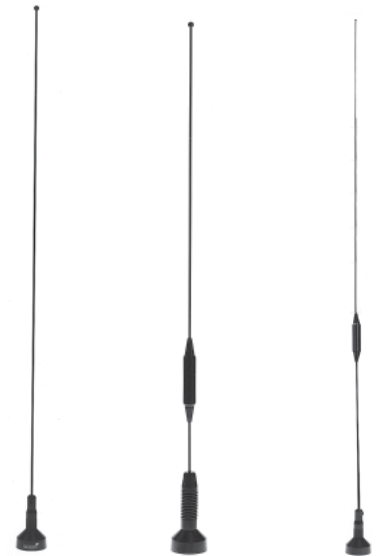
Features

- Molded polymer base provides ruggedness and durability in harsh mobile environments.
- Wideband performance (Wi-Fi and WiMAX models) provide coverage of 2.2 GHz to 2.9 GHz frequencies without tuning. WiMAX model covers 2.3-3.8 GHz frequencies.
- 3 dB or 5 dB models available for most frequency ranges
- Most models available in bright chrome or black finish
- Antenna is ready to install; no rod cutting is required (unless otherwise noted)
- Designed to mate with all 1-1/8"-18 thread mounts, including 3/4" mounts
- Spring-loaded gold plated contact pin



Technical Data

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| Maximum Power: 200 watts(VHF models) 150 watts (UHF models) 100 watts (all other models) |
| Polarization: Vertical |
| Nominal Impedance: 50 ohms |
| VSWR at Resonance: < 1.5:1 (Most models, except as noted below) < 1.9:1 (MAX7635S only) < 2.0:1 [(B)MAX150/450(S) and (B)MAX140/440(S)] |
| Radiator Material: .100" OD stainless steel; bright (MAXC) or black finish (BMAXC) .062" diameter black stainless steel |
| Spring: Stainless steel; bright or black finish (not all options available with every model) |
| Base Coil Housing: Molded polymer with a plated insert ring and a spring-loaded contact pin |
| Phasing Coil Housing: Molded polymer jacket with copper, nickel and chrome plated bushing |
| Rod Ferrule: 5/16" -24 thread; bright or black chrome plated finish |
| Mount Method: Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts |



(B)MAXMFT (B)MAX150/450 (B)MAX455



(B)MAXSCAN1000 BMAX824/1850 BMAX8155S



BMAXC233805



BMAXC Antennas

Antenna Electrical Specifications

| Model | Frequency Range | Factory Tuned Frequency | Gain | Rod Type |
|-----------------|-------------------------------------|-------------------------|---------------|------------------|
| (B)MAXMFT(S)* | 118-940 MHz | Field Tunable | Unity | Straight |
| (B)MAX150D(S)* | 150-174 MHz | 160 MHz | Unity | Collinear/Open |
| BMAX150/450(S)* | 150-174 MHz/450-470 MHz | 160/460 MHz | Unity | Collinear/Closed |
| MAXSCAN1000(S)* | 150-174 MHz/450-470 MHz/800-840 MHz | 160 MHz/460 MHz/n/a | Unity | Collinear/Closed |
| BMAXSCAN1000 | 150-174 MHz/450-470 MHz/800-840 MHz | 160 MHz/460 MHz/n/a | Unity | Collinear/Closed |
| MAX455 | 450-470 MHz | Field Tunable | 5 dB | Collinear/Closed |
| (B)MAX7603S* | 760-870 MHz | 815 MHz | 3 dB | Collinear/Open |
| BMAX7633S* | 760-870 MHz | 815 MHz | 3 dB | Collinear/Closed |
| (B)MAX7635S* | 760-870 MHz | Broadband** | 5 dB | Trilinear/Closed |
| (B)MAX8055(S)* | 806-866 MHz | 815 MHz | 5 dB | Trilinear/Closed |
| BMAX8033(S)* | 806-866 MHz | 835 MHz | 3 dB | Collinear/Closed |
| (B)MAX8053(S)* | 806-866 MHz | 835 MHz | 3 dB | Collinear/Open |
| BMAX8155S* | 806-896 MHz | Broadband** | 4.5 dB | Collinear/Closed |
| BMAX824/1850* | 824-896 MHz/1850-1990 MHz | Broadband** | 2.2 dBi/4 dBi | Collinear/Open |
| MAX8375 | 825-896 MHz | 835 MHz | 5 dB | Trilinear/Closed |
| BMAX9105(S)* | 870-950 MHz | 898 MHz | 5 dB | Trilinear/Closed |
| MAX9105 | 870-950 MHz | 898 MHz | 5 dB | Trilinear/Closed |
| BMAX9155S* | 890-945 MHz | Broadband** | 4.0 dB | Collinear/Closed |
| MAX9053 | 896-940 MHz | 896 MHz | 3 dB | Collinear/Open |
| MAX9075 | 896-940 MHz | 896 MHz | 5 dB | Trilinear/Open |
| (B)MAX9085S* | 896-940 MHz | 896 MHz | 5 dB | Trilinear/Closed |
| (B)MAXC24503* | 2.2-2.9 GHz | Broadband** | 3 dBi | Collinear/Closed |
| (B)MAXC24505* | 2.2-2.9 GHz | Broadband** | 5 dBi | Collinear/Closed |
| BMAXC233805* | 2.3-3.8 GHz | Broadband** | 5 dBi | Collinear/Closed |

* Prefix "B" indicates black. Suffix "S" indicates spring.

** Optimized across the entire specified frequency range.

Mechanical Specifications

| Model | Antenna Height at lowest frequency | Antenna Type |
|----------------|------------------------------------|-------------------------------|
| (B)MAXMFT(S) | Approximately 26" | 1/4 wave |
| (B)MAX150D(S) | Approximately 17" | 1/4 wave |
| BMAX150/450(S) | Approximately 20" | 1/4 wave/Collinear array |
| MAXSCAN1000(S) | Approximately 21" | 1/4 wave or Collinear array |
| (B)MAXSCAN1000 | Approximately 21" | 1/4 wave or Collinear array |
| MAX455 | Approximately 33" | 5/8 wave over a 1/2 wave |
| (B)MAX7603S | Approximately 14" | Wideband collinear |
| BMAX7633S | Approximately 14" | Wideband collinear |
| (B)MAX7635S | Approximately 25" | Dual 1/2 wave over a 1/4 wave |
| (B)MAX8055(S) | Approximately 24" | Dual 1/2 wave over a 1/4 wave |
| BMAX8033(S) | Approximately 13" | 5/8 wave over a 1/4 wave |
| (B)MAX8053(S) | Approximately 13" | 5/8 wave over a 1/4 wave |
| BMAX8155S | Approximately 13" | Collinear array |
| BMAX824/1850 | Approximately 12" | Dual Band Collinear |
| MAX8375 | Approximately 13" | 5/8 wave over a 1/4 wave |
| BMAX9105(S) | Approximately 23" | Dual 1/2 wave over a 1/4 wave |
| MAX9105 | Approximately 23" | Dual 1/2 wave over a 1/4 wave |
| BMAX9155S | Approximately 13" | Collinear array |
| MAX9053 | Approximately 11" | 5/8 wave over a 1/4 wave |
| MAX9075(S) | Approximately 23" | Dual 1/2 wave over a 1/4 wave |
| MAX9085(S) | Approximately 23" | Dual 1/2 wave over a 1/4 wave |
| (B)MAXC24503 | 5.25" (133.35 mm) | ISM mobile and WLAN |
| (B)MAXC24505 | 7.50" (190.50 mm) | ISM mobile and WLAN |
| BMAXC233805 | 4.75" (12.06 cm) | WiMAX mobile |