

## 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.

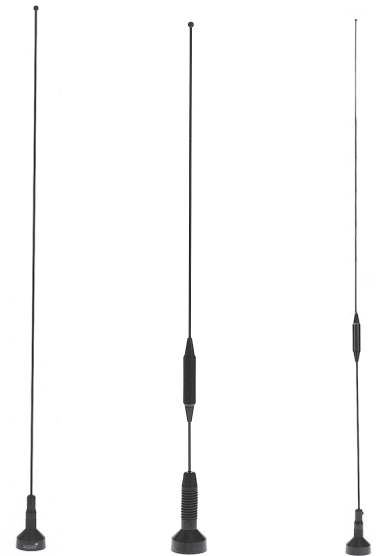
### Features

- 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

<b>Maximum Power:</b> 200 watts(VHF models) 150 watts (UHF models) 100 watts (all other models)
<b>Polarization:</b> Vertical
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR at Resonance:</b> < 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)]
<b>Radiator Material:</b> .100" OD stainless steel; bright (MAXC) or black finish (BMAXC) .062" diameter black stainless steel
<b>Spring:</b> Stainless steel; bright or black finish (not all options available with every model)
<b>Base Coil Housing:</b> Molded polymer with a plated insert ring and a spring-loaded contact pin
<b>Phasing Coil Housing:</b> Molded polymer jacket with copper, nickel and chrome plated bushing
<b>Rod Ferrule:</b> 5/16" -24 thread; bright or black chrome plated finish
<b>Mount Method:</b> 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
(B)MAX8375(S)*	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
(B)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

## Wideband No Tune “Male-Female” Connector Interface Antennas

These antennas feature a male-female contact mount interface that provides positive connection for noise-free cellular or PCS phone operation.

### Features

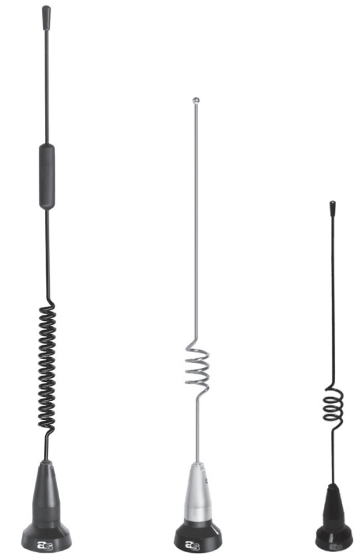
- Noise-free – male-female contact mount interface provides positive connection for noise-free cellular or PCS telephone operation, especially for digital applications
- Rugged one piece construction, including phasing coil
- Patented Whip Design – special phasing coil achieves 3 dB operation at both cellular and PCS frequency bands (dual band model)
- Convenient – whip can be easily removed from base when needed

### Antenna Electrical Specifications

Model	Frequency Range	Bandwidth	Gain	VSWR at Resonance	Maximum Power
ASPA1855	806-869 MHz	63 MHz	3 dB	< 1.5:1	100 watts
ASPA1865	806-869 MHz	63 MHz	3 dB	< 1.5:1	100 watts
ASPD1865	824-894 MHz	70 MHz	3 dB	< 1.9:1	100 watts
ASPDM1965	824-894/ 1850-1990 MHz	70 MHz/ 140 MHz	3 dB/ 3 dB	< 2.0:1	10 watts

### Mechanical Specifications

Model	Finish	Whip Length
ASPA1855	DURA-CON® plated	Approximately 14”
ASPA1865	DURA-COAT™ black	Approximately 14”
ASPD1865	DURA-COAT™ black	Approximately 14.7”
ASPDM1965	DURA-COAT™ black	Approximately 14”



ASPDM1965  
U.S. Patent No.  
6,215,451 B1

ASPA1855

ASPD1865



A/S male-female  
connector interface



### Technical Data

<b>Nominal Impedance:</b> 50 ohms
<b>Radiator Material:</b> Stainless steel DURA-CON® plated or black DURA-COAT™ finish (select models)
<b>Base:</b> Aluminum, brass and plated steel
<b>Mount Method:</b> Compatible with A/S® male-female con- tact mounts (sold separately)