

## VHF Wideband Antennas - Field Tune

These VHF field tune antennas address equipment inter-operability challenges by providing superior bandwidth coverage without sacrificing antenna performance. Featuring stainless steel heavy duty spring and molded polymer base, these antennas are built to withstand high vibration conditions.

### Features

- The matching coil is wound around a low-loss coil form to withstand severe operating conditions
- Outstanding bandwidth performance
- Rugged compact design ideal for high vibration conditions
- Mates with all 1-1/8" -18 thread mounts, including 3/4" mounts

### Antenna Electrical Specifications

Model	Frequency Range	Bandwidth	Gain
(B)MWV1322(S)	132-174 MHz	20 MHz	2.4 dB
MWV1322HD(S)	132-174 MHz	26 MHz	2.4 dB/Unity
MWB1320	132-512 MHz	24 MHz	Unity
MWB5803	150-174 MHz	18 MHz	3 dB

### Mechanical Specifications

Model	Antenna Height at lowest frequency
(B)MWV1322(S)	Approximately 48"
MWV1322HD(S)	Approximately 48"
MWB1320	Approximately 22"
MWB5803	Approximately 49"



(B)MWV1322(S) (B)MWV1322HD(S)

**MAXRAD**

### Technical Data

<b>Maximum Power:</b> 150 watts
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR:</b> < 2.0:1
<b>Radiator Material:</b> .100" - .062" diameter tapered stainless steel .125" - .100" diameter tapered stainless steel rod (heavy duty "HD" models only)
<b>Optional Spring (if available with the antenna):</b> Stainless steel
<b>Base Coil Housing:</b> Molded polymer jacket with copper, nickel and chrome plated bushing

For detailed specifications, visit <http://antenna.pctel.com>.

\*Prefix "B" indicates black. Suffix "S" indicates spring. The spring option is not retrofittable, so please indicate at the time of order. Model MWU4002S is only available with a spring.

## Replacement Rods

Replacement Rods		Antenna Model .....	Replacement Rod #	Antenna Model .....	Replacement Rod #
ASP1815 .....	KD1810Z	BMUF4325 .....	BMUR4325	MAX150/450 .....	MUX150/450
ASP358 .....	K-41	BMUF4500 .....	BMAT4500	MAX440D .....	MUX440D
ASP7455 .....	KR731	BMUF4503 .....	BMLW15.5	MAX450D .....	MUX450D
ASP7655 .....	KR724	BMUF4525 .....	BMUR4525	MAX455 .....	BMUX455
ASP7795 .....	KRL724	BMUF4600 .....	BMUR4600	MAX8033 .....	MUX8033
ASPA7655 .....	KRA724	BMUF4700 .....	BMUR4700	MAX8053 .....	MUX8053
ASPB7655 .....	KRB724Z	BMUF4700 .....	BMAT4700	MAX8053 .....	BMUX8053
ASPC201 .....	K42	BMUF4703 .....	BMLW15.5	MAX8135 .....	MUX8135
ASPC201 .....	K51	BMUF4725 .....	BMUR4725	MAX8355 .....	MUX8355
ASPC7655 .....	KRC7243	BMUF490 .....	BMUR490	MAX8375 .....	MUX8375
ASPD1865 .....	KD1860Z	BMUF4900 .....	BMAT4900	MAX9033 .....	MUX9033
ASPD1894 .....	KD1894Z	BMUF4903 .....	BMLW15.5	MAX9053 .....	MUX9053
ASPD1965 .....	KDM1960Z	BMUF4925 .....	BMUR4925	MAX9075 .....	MUX9075
ASPD913U .....	KDM913Z	BMUF8000 .....	BMAT8000	MAX9085 .....	MUX9085
ASPE7655 .....	KRE724	BMUF8023 .....	BMUR8023	MAX-HAM .....	MUXHAM
ASPR7495 .....	K7490Z	BMUF8035 .....	BMUR8035	MAXMFT .....	MLWVWBQ
ASPR795 .....	K790Z	BMUF8040 .....	BMUR8040	MAXSCAN1000 .....	MUXSCAN
APR852.3 .....	KR852Z	BMUF8043 .....	BMUR8043	MAZ8055 .....	MUX8055
ASPRDM1994 .....	KRDM1994Z	BMUF8045 .....	BMUR8045	MBSUHF .....	MLW22.5
APRG852.3 .....	KG852Z	BMUF8063 .....	BMUR8063	MHB1360 .....	MAT1360
ASPS177 .....	K-41	BMUF8073 .....	BMUR8073	MHB1440 .....	MAT1440
BMAX12705 .....	BMUX12705	BMUF8083 .....	BMUR8083	MHB1520 .....	MAT1520
BMAX140D .....	BMUX140D	BMUF8125 .....	BMUR8125	MHB1620 .....	MAT1620
BMAX150/450 .....	BMUX150/450	BMUF8133 .....	BMUR8133	MHB2002 .....	MLW35
BMAX150D .....	BMUX150D	BMUF8135 .....	BMUR8135	MHB2200 .....	MAT2200
BMAX440D .....	BMUX440D	BMUF8143 .....	BMUR8143	MHB5800 .....	MATH
BMAX450D .....	BMUX450D	BMUF8253 .....	BMUR8253	MHB5800132 .....	MATH132
BMAX8033 .....	BMUX8033	BMUF8345 .....	BMUR8345	MHB5800HD .....	MATHHD
BMAX8055 .....	BMUX8055	BMUF8353 .....	BMUR8353	MHB5802 .....	MATH
BMAX8135 .....	BMUX8135	BMUF8355 .....	BMUR8355	MHB5802132 .....	MATH132
BMAX824/1850 .....	BMUX824/1850	BMUF8363 .....	BMUR8363	MHB5812 .....	MATH132
BMAX8355 .....	BMUX8355	BMUF8400 .....	BMUR8400	MHB5820 .....	MATH
BMAX8375 .....	BMUX8375	BMUF8405 .....	BMUR8405	MHB5825 .....	MATH
BMAX9033 .....	BMUX9033	BMUF8455 .....	BMUR8455	MHBDC5800 .....	MATH
BMAX9053 .....	BMUX9053	BMUF8963 .....	BMUR8963	MHBDC5800132 .....	MATH132
BMAX9075 .....	BMUX9075	BMUF8965 .....	BMUR8965	MHBL118 .....	MLW24
BMAX9085 .....	BMUX9085	BMUF8975 .....	BMUR8975	MHBL54 .....	MATH132
BMAX-HAM .....	BMUXHAM	BMUF8983 .....	BMUR8983	MHBL88 .....	MLW49
BMAXMFT .....	BMLWVWBQ	BMUF8993 .....	BMUR8993	MLB2700 .....	MATH
BMAXMFTHD .....	BMLWVWBQHD	BMUF9000 .....	BMAT9000	MLB3000 .....	MATH
BMAXSCAN1000 .....	BMUXSCAN	BMUF9040 .....	BMUR9040	MLB3001 .....	MAR96F
BMFT120 .....	BMFT1/4	BMUF9083 .....	BMUR9083	MLB3001 .....	MAR96F
BMHB1360 .....	BMAT1360	BMUF9105 .....	BMUR9105	MLB3400 .....	MATH
BMHB1440 .....	BMAT1440	BMUF9115 .....	BMUR9115	MLB4000 .....	MATH
BMHB1520 .....	BMAT1520	BMUFL4065 .....	BMLW4065	MLB4700 .....	MATH
BMHB1620 .....	BMAT1620	BMUFL4305 .....	BMLW4305	MLB6600 .....	MATH
BMHB2002 .....	BMLW35	BMUFL4505 .....	BMLW4505	MLBDC2700 .....	MATH
BMHB2200 .....	BMAT2200	BMUFL4705 .....	BMLW4705	MLBDC3000 .....	MATH
BMHBL118 .....	BMLW24	BMUFL4905 .....	BMLW4905	MLBDC3400 .....	MATH
BMHBL154 .....	BMATH132	BMUFL800 .....	BMLW800	MLBDC3700 .....	MATH
BMMC120 .....	BMATH132	BMUFL8005 .....	BMLW8005	MLBDC4000 .....	MATH
BMMC150 .....	BMATH	BMUFL8033 .....	BMLW8033	MLBDC4400 .....	MATH
BMMC150132 .....	BMATH132	BMUFL8053 .....	BMLW8053	MLBDC4500 .....	MATH
BMMC200 .....	BMATH	BMUFL8105 .....	BMLW8105	MLBDC4700 .....	MATH
BMMC380 .....	BMUR380	BMUFL8305 .....	BMLW8305	MLBDC5000 .....	MATH
BMMC450 .....	BMUR450	BMUFL8325 .....	BMLW8325	MMC120 .....	MATH132
BMMC150 .....	BMATH	BMUFL9033 .....	BMLW9033	MMC150 .....	MATH
BMMC150132 .....	BMATH132	BMUFL9053 .....	BMLW9053	MMC150132 .....	MATH132
BMMC1200 .....	BMATH	BMUFL9075 .....	BMLW9075	MMC200 .....	MATH
BMUF 4300 .....	BMAT4300	BMUFL9085 .....	BMLW9085	MMCL150 .....	MATH
BMUF406 .....	BMUR406	BMUX140/440 .....	BMUX140/440	MMCL150132 .....	MATH132
BMUF4060 .....	BMAT4060	BMW1320 .....	BMLW21	MMCL200 .....	MATH
BMUF4085 .....	BMUR4085	MAX140/440 .....	MUX140/440	MUF3505 .....	MUB350
BMUF430 .....	BMUR430	MAX140D .....	MUX140D	MUF4060 .....	MAT4060
BMUF4303 .....	BMLW15.5	MAX150 .....	MUX150D	MUF4062 .....	MLW11

## Mobile Replacement Whips, Rods, Adapters, Connectors

## Replacement Rods

MUF4065, MAX405	MUB406
MUF4065NGP	MUB406NGP
MAX430	MUB430
MAX450	MUB450
MAX470	MUB470
MUF4300	MAT4300
MUF4302	MLW11
MUF4303	MLW15.5
MUF4305	MUB430
MUF4305NGP	MUB430NGP
MUF4500	MAT4500
MUF4502	MLW11
MUF4503	MLW15.5
MUF4505	MUB450
MUF4505NGP	MUB450NGP
MUF4700	MAT4700
MUF4702	MLW11
MUF4703	MLW15.5
MUF4705	MUB470
MUF4705NGP	MUB470NGP
MUF4900	MAT4900
MUF4902	MLW11
MUF4903	MLW15.5
MUF4905	MUB490
MUF4905NGP	MUB490NGP
MUF8000	MAT8000
MUF8003	MUB8003
MUF8003NGP	MUB8003NGP
MUF8003NGPS	MUB8003NGPS
MUF8003S	MUB8003S
MUF8005	MUB8005
MUF8005NGP	MUB8005NGP
MUF8005NGPS	MUB8005NGPS
MUF8005S	MUB8005S
MUF8103	MUB8103

Antenna Model	Replacement Rod #
MUF8103NGP	MUB8103NGP
MUF8103NGPS	MUB8103NGPS
MUF8103S	MUB8103S
MUF8105	MUB8105
MUF8105NGP	MUB8105NGP
MUF8105NGPS	MUB8105NGPS
MUF8105S	MUB8105S
MUF8303NGP	MUB8303NGP
MUF8303NGPS	MUB8303NGPS
MUF8305	MUB8305
MUF8305NGP	MUB8305NGP
MUF8305NGPS	MUB8305NGPS
MUF8305S	MUB8305S
MUF8323NGP	MUB8323NGP
MUF8323NGPS	MUB8323NGPS
MUF8325	MUB8325
MUF8325NGP	MUB8325NGP
MUF8325NGPS	MUB8325NGPS
MUF8325S	MUB8325S
MUF8350NGP	MUB8350NGP
MUF9000	MAT9000
MUF9000NGP	MUB9000NGP
MUF9003	MUB9003
MUF9003NGP	MUB9003NGP
MUF9003NGPS	MUB9003NGPS
MUF9003S	MUB9003S
MUF9025	MUB9025
MUF9025NGP	MUB9025NGP
MUF9025NGPS	MUB9025NGPS
MUF9025S	MUB9025S
MUF9035	MUB9035
MUF9035NGP	MUB9035NGP
MUF9035NGPS	MUB9035NGPS
MUF9035S	MUB9035S
MUF9043	BMUR9043

Antenna Model	Replacement Rod #
MUF9103	MUB9103
MUF9103NGP	MUB9103NGP
MUF9103NGPS	MUB9103NGPS
MUF9103S	MUB9103S
MUF9113	BMUR9113
MUFL4065	MLW4065
MUFL4305	MLW4305
MUFL4505	MLW4505
MUFL4705	MLW4705
MUFL4905	MLW4905
MUFL800	MLW800
MUFL8005	MLW8005
MUFL8033	MLW8033
MUFL8053	MLW8053
MUFL8105	MLW8105
MUFL8305	MLW8305
MUFL8325	MLW8325
MUFL9033	MLW9033
MUFL9053	MLW9053
MUFL9075	MLW9075
MUFL9085	MLW9085
MWB1320	MLW21
MWBDC2700	MATH
MWBDC3000	MATH
MWBDC3400	MATH
MWBDC4000	MATH
MWBDC4400	MATH
MWBDC4700	MATH
MWU4002	MWUR4002
MWU4065	MWUR4065
MWU4205	MWUR4205
MWU4505	MWUR4505
MWU4705	MWUR4705
MWV1322	MWVR1322
MWV1322HD	MLW21HD

## Replacement Coils

Replacement Coils		Antenna Model .....	Replacement Coil #	Antenna Model .....	Replacement Coil #
ASP358 .....	K48	MUF4063 .....	MAT403	MUF8105NGP .....	MAT8105NGP
ASP7455 .....	K725	MUF4063S .....	MAT403S	MUF8105NGPS .....	MAT8105NGPS
ASP7655 .....	K722	MUF4065 .....	MAT406	MUF8150NGP .....	MAT8150NGP
ASP7655 .....	KT722	MUF4065NGP .....	MAT406NGP	MUF8150NGPS .....	MAT8150NGPS
ASPR0495 .....	K729	MUF4065NGPS .....	MAT406NGPS	MUF8303NGP .....	MAT8303NGP
ASPR795 .....	K729	MUF4302 .....	MAT432	MUF8303NGPS .....	MAT8303NGPS
ASPS177 .....	K48	MUF4302S .....	MAT432S	MUF8305NGP .....	MAT8305NGP
BMLB3001 .....	BMAT3001	MUF4303 .....	MAT433	MUF8305NGPS .....	MAT8305NGPS
MDB1444 .....	MATMDB144	MUF4303S .....	MAT433S	MUF8323NGP .....	MAT8323NGP
MDB1444S .....	MATMDB144S	MUF4305 .....	MAT430	MUF8323NGPS .....	MAT8323NGPS
MDB1545 .....	MATMDB154	MUF4305NGPS .....	MAT430NGPS	MUF8325 .....	MAT8325
MDB1545S .....	MATMDB154S	MUF4502 .....	MAT452	MUF8325NGP .....	MAT8325NGP
MHB2002 .....	MAT202	MUF4502S .....	MAT452S	MUF8325NGPS .....	MAT8325NGPS
MHB2002S .....	MAT202S	MUF4503 .....	MAT453	MUF8350NGP .....	MAT8350NGP
MHB2252 .....	MAT222	MUF4503 .....	MAT453S	MUF8350NGPS .....	MAT8350NGPS
MHB2252S .....	MAT222S	MUF4505 .....	MAT450	MUF9000NGP .....	MAT9000NGP
MHB5800 .....	MAT58	MUF4505NGP .....	MAT450NGP	MUF9003 .....	MAT9003
MHB5800HD .....	MAT58HD	MUF4505NGPS .....	MAT450NGPS	MUF9003NGP .....	MAT9003NGP
MHB5802 .....	MAT582	MUF4702 .....	MAT472	MUF9003NGPS .....	MAT9003NGPS
MHB5812S .....	MAT512S	MUF4702S .....	MAT472S	MUF9025 .....	MAT9025
MHB5820 .....	MAT22	MUF4703 .....	MAT473	MUF9025NGP .....	MAT9025NGP
MHB5850 .....	MAT585	MUF4703 .....	MAT473S	MUF9025NGPS .....	MAT9025NGPS
MHBDC5800 .....	MAT58DC	MUF4705 .....	MAT470	MUF9035 .....	MAT9035
MHBDC5800-132 .....	MAT58DC	MUF4705NGP .....	MAT470NGP	MUF9035NGP .....	MAT9035NGP
MLB2700 .....	MAT27	MUF4705NGPS .....	MAT470NGPS	MUF9035NGPS .....	MAT9035NGPS
MLB3000 .....	MAT30	MUF4902 .....	MAT492	MUF9103NGP .....	MAT9103NGP
MLB3001 .....	MAT3001	MUF4902S .....	MAT492S	MUF9355 .....	MAT900
MLB3400 .....	MAT34	MUF4903 .....	MAT493	MWB1320 .....	MATMWB
MLB4000 .....	MAT40	MUF4903 .....	MAT493S	MWB4505 .....	MATWB450
MLB4700 .....	MAT47	MUF4905 .....	MAT490	MWB4705 .....	MATWB470
MLB6600 .....	MAT66	MUF4905NGP .....	MAT490NGP	MWB4905 .....	MATWB490
MLBDC2700 .....	MAT27DC	MUF4905NGPS .....	MAT490NGPS	MWB5803 .....	MATWB583
MLBDC3000 .....	MAT30DC	MUF8003 .....	MAT8003	MWB5803 .....	MATWB583132
MLBDC3400 .....	MAT34DC	MUF8003NGP .....	MAT8003NGP	MWB5803-144 .....	MATWB583144
MLBDC3700 .....	MAT37DC	MUF8003NGPS .....	MAT8003NGPS	MWBDC2700 .....	MATWB27DC
MLBDC4000 .....	MAT40DC	MUF8005 .....	MAT8005	MWBDC3000 .....	MATWB30DC
MLBDC4500 .....	MAT45DC	MUF8005NGP .....	MAT8005NGP	MWBDC4000 .....	MATWB40DC
MLBDC4700 .....	MAT47DC	MUF8005NGPS .....	MAT8005NGPS	MWBDC4400 .....	MATWB44DC
MLBDC5000 .....	MAT50DC	MUF8103 .....	MAT8103	MWBDC4700 .....	MATWB47DC
MONR33 .....	K729	MUF8103NGP .....	MAT8103NGP	MWV1322 .....	MATMWV
MUF4062 .....	MAT402	MUF8103NGPS .....	MAT8103NGPS	MWV1322HD .....	MATMWVHD
MUF4062S .....	MAT402S	MUF8105 .....	MAT8105		