



MAXRAD

Technical Data

Maximum Power: 200 watts
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Radiator Material: .100" diameter stainless steel
Optional Spring: Stainless steel (except MUF3002NGP)
Phasing Coil Housing: Molded polymer jacket with bright or black chrome plated bushing
Base Coil Housing: Molded polymer jacket with copper, nickel and chrome plated bushing
Mount Method: Compatible with 3/4" hole mounts
Antenna Type: Base loaded 5/8 wave over a 1/2 wave (3 dB & 5 dB models) Base loaded 1/2 wave (unity gain models) 1/2 wave antenna (MUF3002NGP)

UHF Base Loaded Chrome Coil Antennas, No Ground Plane

Designed for installations that lack a suitable ground plane, these antennas feature a tapered loading coil jacket with chrome plated fittings and an optional heavy-duty stainless steel spring. The base loaded matching network supports the collinear or trilinear rod sections above without the need of a ground plane.

Features

- No ground plane required
- Rugged construction; optional heavy-duty shock spring
- Sleek, sturdy, sealed phasing coil design
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts

Antenna Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain with/without Ground Plane
MUF3002NGP	300-350 MHz	Field tunable	2 dB/Unity
MUF4065NGP(S)*	406-430 MHz	Field tunable	5 dB/3 dB
MUF4062(S)*	406-430 MHz	Field tunable within specified frequency range	Unity (2.4 dB with Ground Plane)
MUF4305NGP(S)*	430-450 MHz	Field tunable	5 dB/3 dB
MUF4302(S)*	430-450 MHz	Field tunable within specified frequency range	Unity (2.4 dB with Ground Plane)
MUF4505NGP(S)*	450-470 MHz	Field tunable	5 dB/3 dB
MUF4502(S)*	450-470 MHz	Field tunable within specified frequency range	Unity (2.4 dB with Ground Plane)
MUF4705NGP(S)*	470-490 MHz	Field tunable	5 dB/3 dB
MUF4702(S)*	470-490 MHz	Field tunable within specified frequency range	Unity (2.4 dB with Ground Plane)
MUF4905NGP(S)*	490-512 MHz	Field tunable	5 dB/3 dB
MUF4902(S)*	490-512 MHz	Field tunable within specified frequency range	Unity (2.4 dB with Ground Plane)

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

*Suffix "S" (Spring) is not a retrofit option, please indicate at time of order.

Mechanical Specifications

Model	Antenna Height at lowest frequency
MUF3002NGP	Approximately 20.5"
MUF4065NGP(S)*	Approximately 33"
MUF4062(S)*	Approximately 17"
MUF4305NGP(S)*	Approximately 33"
MUF4302(S)*	Approximately 17"
MUF4505NGP(S)*	Approximately 33"
MUF4502(S)*	Approximately 17"
MUF4705NGP(S)*	Approximately 33"
MUF4702(S)*	Approximately 17"
MUF4905NGP(S)*	Approximately 33"
MUF4902(S)*	Approximately 17"

*Suffix "S" (Spring) is not a retrofit option, please indicate at time of order.

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		