

FIBERGLASS OMNIDIRECTIONAL - VHF, UHF, 800 & 900 MHz

ANTENEX® Gold Fiberglass Base Station antennas are collinear designs enclosed in a high density fiberglass, which is covered with an ultraviolet inhibiting layer of protective coating.

The radiating elements are made from high efficiency copper and are carefully phased to provide maximum gain in the horizontal plane. The mounting sleeves are tuned to eliminate RF currents from the transmission line resulting in a "cold" sleeve allowing great freedom in mounting. This high quality and well-focused beam provides the highest gain and best efficiency.

Every FG fiberglass base antenna is tested on a HP® network analyzer before shipping to assure the best VSWR performance.

*See the **ANTENEX® Freedom™** Series of mounts for a variety of mounting options on page 18.*



Base Connector

Special Tuning Available for \$20.00



FG8066 & FG8063

w/FM2 Mounting Option

Model	Frequency Range	Tuned Frequency	Length
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VHF UNITY GAIN MODELS

FG1360	136-140 MHz	138 MHz	68"
FG1400	140-144 MHz	142 MHz	68"
FG1440	144-148 MHz	146 MHz	68"
FG1480	148-152 MHz	150 MHz	68"
FG1520	152-156 MHz	154 MHz	68"
FG1560	156-162 MHz	159 MHz	68"
FG1620	162-168 MHz	165 MHz	68"
FG1680	168-174 MHz	171 MHz	68"
FG2200	220-225 MHz	222.5 MHz	68"

VHF 3 dB GAIN MODELS

FG1403	140-144 MHz	142 MHz	107"
FG1443	144-148 MHz	146 MHz	107"
FG1483	148-152 MHz	150 MHz	107"
FG1523	152-156 MHz	154 MHz	107"
FG1563	156-162 MHz	159 MHz	107"
FG1623	162-168 MHz	165 MHz	107"
FG1683	168-174 MHz	171 MHz	107"
FG2203	220-225 MHz	222.5 MHz	107"

UHF UNITY GAIN MODELS

FG3600	360-380 MHz	370 MHz	26"
FG3800	380-390 MHz	385 MHz	26"
FG4060	406-416 MHz	411 MHz	26"
FG4100	410-420 MHz	415 MHz	26"
FG4300	430-440 MHz	435 MHz	26"
FG4500	450-460 MHz	455 MHz	26"
FG4700	470-480 MHz	475 MHz	26"
FG4900	490-512 MHz	501 MHz	26"

Ordering Guide - Clear, Easy & Sensible!

FG1523 = Omnidirectional Fiberglass 152-156 MHz, 3 dB.

FG	Mount Style	FG = Fiberglass - Gold Sleeve			
152	Frequency	Frequency component of part number in bold below:			
		136-140	140-144	144-148	148-152
		152-156	156-162	162-168	168-174
		220-225	360-380	380-390	406-416
		410-420	420-430	430-440	440-450
		450-460	460-470	470-480	480-490
		490-500	500-512	806-866	824-896
		851-896	869-902	896-940	902-928
928-970	936-970	1240-1300			
3	Gain	0 = Unity	3 = 3 dB	5 = 5 dB	
		6 = 6 dB	7 = 7 dB		
BLANK	Special	W = 20 MHz Wide Bandwidth. Only on selected models.			

Model	Frequency Range	Tuned Frequency	Length
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UHF 3 dB GAIN MODELS

FG3603	360-380 MHz	370 MHz	44"
FG3803	380-390 MHz	385 MHz	44"
FG4063	406-416 MHz	411 MHz	44"
FG4103	410-420 MHz	415 MHz	44"
FG4203	420-430 MHz	425 MHz	44"
FG4303	430-440 MHz	435 MHz	44"
FG4403	440-450 MHz	445 MHz	44"
FG4503	450-460 MHz	455 MHz	44"
FG4603	460-470 MHz	465 MHz	44"
FG4703	470-480 MHz	475 MHz	44"
FG4803	480-490 MHz	485 MHz	44"
FG4903	490-500 MHz	495 MHz	44"
FG5003	500-512 MHz	506 MHz	44"

UHF 5 dB GAIN MODELS

FG4065	406-416 MHz	411 MHz	76"
FG4105	410-420 MHz	415 MHz	76"
FG4205	420-430 MHz	425 MHz	76"
FG4305	430-440 MHz	435 MHz	76"
FG4405	440-450 MHz	445 MHz	76"
FG4505	450-460 MHz	455 MHz	76"
FG4505W	450-470 MHz	460 MHz	76"
FG4605	460-470 MHz	465 MHz	76"
FG4705	470-480 MHz	475 MHz	76"
FG4805	480-490 MHz	485 MHz	76"
FG4905	490-500 MHz	495 MHz	76"
FG5005	500-512 MHz	506 MHz	76"

UHF 7 dB GAIN MODELS

FG4407	440-450 MHz	445 MHz	107"
FG4507	450-460 MHz	455 MHz	107"
FG4607	460-470 MHz	465 MHz	107"
FG4707	470-480 MHz	475 MHz	107"
FG4807	480-490 MHz	485 MHz	107"
FG4907	490-500 MHz	495 MHz	107"
FG5007	500-512 MHz	506 MHz	107"

800/900 MHz UNITY GAIN MODELS

FG8060	806-866 MHz	813.5 MHz	15"
FG8240	824-896 MHz	835 MHz	15"
FG8510	851-896 MHz	858 MHz	15"
FG8690	869-902 MHz	882 MHz	15"
FG8960	896-940 MHz	898 MHz	15"
FG9020	902-928 MHz	915 MHz	15"
FG9280	928-970 MHz	930 MHz	15"
FG9360	936-970 MHz	953 MHz	15"

800/900 MHz 3 dB GAIN MODELS

FG8063	806-866 MHz	813.5 MHz	25"
FG8243	824-896 MHz	835 MHz	25"
FG8513	851-896 MHz	858 MHz	25"
FG8693	869-902 MHz	882 MHz	25"
FG8963	896-940 MHz	898 MHz	25"
FG9023	902-928 MHz	915 MHz	25"
FG9283	928-970 MHz	930 MHz	25"
FG9363	936-970 MHz	947 MHz	25"

Model	Frequency Range	Tuned Frequency	Length
800/900 MHz 6 dB GAIN MODELS			
FG8066	806-866 MHz	813.5 MHz	65"
FG8246	824-896 MHz	835 MHz	65"
FG8516	851-896 MHz	858 MHz	65"
FG8696	869-902 MHz	882 MHz	65"
FG8966	896-940 MHz	898 MHz	65"
FG9026	902-928 MHz	915 MHz	65"
FG9286	928-970 MHz	930 MHz	65"
FG9366	936-970 MHz	947 MHz	65"

1.2 GHz GHz UNITY MODELS			
FG12400	1240-1300 MHz	1270 MHz	25"

1.2 GHz GHz 3 dB MODELS			
FG12403	1240-1300 MHz	1270 MHz	25"

1.2 GHz GHz 6 dB MODELS			
FG12406	1240-1300 MHz	1270 MHz	65"

Model	Description
MOBILE TO BASE CONVERTER	
MBC	Mobile-to-base Converter for VHF and UHF, S0239 Terminated
MBCN	Mobile-to-base Converter for VHF and UHF, N Terminated
MBC800	Mobile-to-base Converter for 800 and 900 MHz, N Terminated

FIBERGLASS BASE ANTENNAS MOUNTING OPTIONS

FM1	Stainless Steel U-Bit Mount (2)
FM2	Fiberglass Mounting Bracket (2)
FM3	Heavy Duty Mounting Bracket (2)
FM3W	Welded Heavy Duty Bracket (2)
FME34	Freedom Eave Mount
FMS9	9 Inch Standoff (2)
FMW4	4 Inch Wall Mount

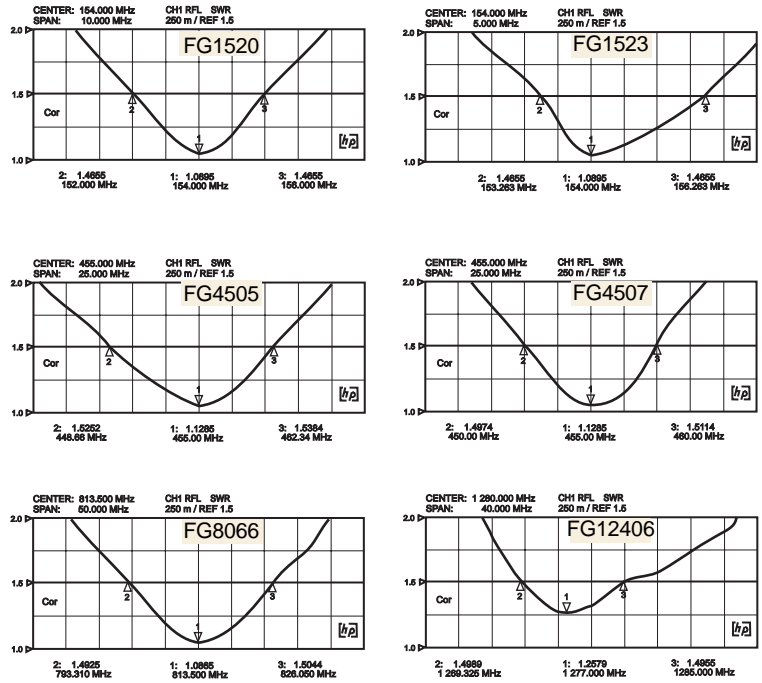
Technical Data - Product Features & Information

- VSWR:** VHF — 3 dB - 2:1, All other models — 1.5:1
- Maximum Power:** 200 watts - UHF and 800 models
250 watts - VHF models
- Impedance:** 50 ohms, Models with DC continuity
- Mounting Sleeve:** Heavy wall, gold anodized 1 1/4" aluminum.
- Radiator:** Precision copper clad elements sealed in white ultraviolet-inhibiting fiberglass radome.
- Mounts to:** See optional mounting kits listed above.
- Antenna Length:**

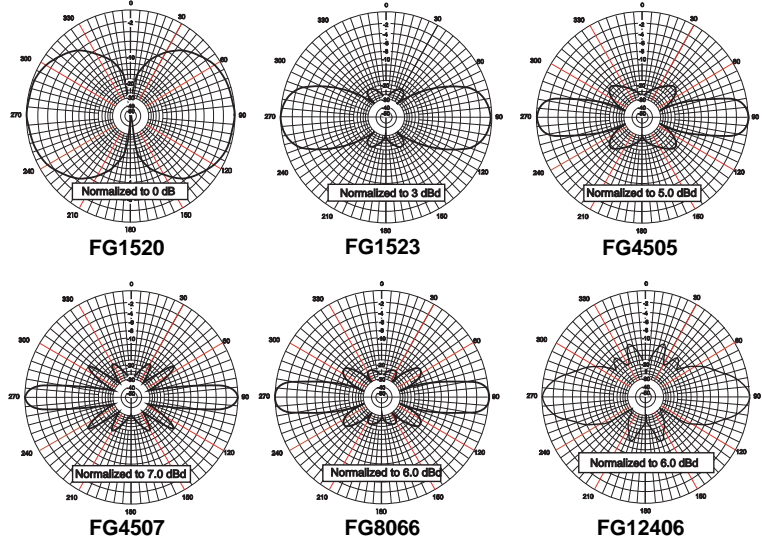
Gain	VHF	UHF	800/900	1.2 GHz
Unity	68"	26"	15"	25"
3 dBd	107"	44"	25"	25"
5 dBd	N/A	76"	N/A	N/A
6 dBd	N/A	N/A	65"	65"
7 dBd	N/A	107"	N/A	N/A
- Vertical Beam Width:**

Unity	3 dBd	5 dBd	6 dBd	7 dBd
75	33	20	17	14
- Antenna Weight:** VHF 3 dBd & UHF 7 dBd = 8 lbs. All others = 6 lbs. (or less)
- Termination:** Recessed type "N" female connector.
- Wind Survival:** 125 M.P.H.
- Polarization:** Vertical Polarization

VSWR



Vertical Field Patterns



MBC800 — Mobile to Base Converter For a quick base antenna anywhere, anytime!

"We use the FG8060 exclusively for our Nextel control station applications and have never experienced a failure." John, Coupe Communications Inc.

MBC800 Show w/ optional B8063