



FG Series

UHF Fiberglass Omnidirectional Base Station Antenna

The FG series UHF omnidirectional base station antennas incorporate a collinear design that is enclosed in high density fiberglass. It is further covered with a protective ultraviolet inhibiting coating. The radiating elements are carefully phased to provide maximum gain in the horizontal plane.

Mounting sleeves are tuned to eliminate RF currents from the transmission line, resulting in a “cold” sleeve that allows for greater freedom in mounting. The antenna’s high quality and well-focused beam provides the high efficiency and optimal gain.

FEATURES

- High-performance
- Tri-linear design
- Every FG fiberglass base antenna is tested on a network analyzer before shipping to assure optimum performance
- Special UV treatment
- Durable gold anodized sleeve and cap with N Female connector
- Custom tuning available
- FedEx / UPS shippable

APPLICATIONS

- Multiple UHF frequency bands
- Omnidirectional outdoor antenna applications
- Private organizations
- Government agencies

SPECIFICATIONS

ELECTRICAL SPECIFICATION	
Operating Frequency	Model Dependant (See Configuration Table Below)
VSWR - Max	<2:1 (At Resonance)
Gain	Model Dependant (See Configuration Table Below)
Nominal Impedance (Ohms)	50
Grounding	DC Grounded
Lightning Protection	Lightning Arrestor LABH350NN (Sold Separately)
Max Power - Ambient 25°C (W)	200
Polarization	Linear Vertical

MECHANICAL SPECIFICATION	
Dimensions	Model Dependant (See Configuration Table Below)
Radome Color / Material	White / Fiberglass
Radiator	Precision copper clad elements sealed in white ultraviolet-inhibiting fiberglass radome.
Mounting Sleeve	Heavy wall, gold anodized 1 1/4" aluminum
Mounting	Pole/Mast with FM2 Mounting Kit (Not Supplied)

ENVIRONMENTAL SPECIFICATION	
Operating Temp. °C (°F)	-30° to +85° (-22° to 185°)
Rated Wind Velocity	125 mph (210 kph)
Rated Wind Velocity (with 0.5" radial ice)	85 mph (137 kph)
Material Substance Compliance	RoHS Compliant CE & UKCA Compliant

PART NUMBER CONFIGURATIONS

ORDERABLE PART NUMBER	FREQUENCY RANGE (MHZ)	TUNED FREQUENCY (MHZ)	GAIN	LENGTH CM (IN.)
FG3803	360-380	370	3 dBd / 5dBi	111.8 (44)
FG4060	406-416	411	Unity dBd / 2dBi	66 (26)
FG4063	406-416	411	3 dBd / 5dBi	111.8 (44)
FG4065	406-416	411	5 dBd / 7dBi	193 (76)
FG4300	430-450	440	Unity dBd / 2dBi	66 (26)
FG4303	430-440	435	3 dBd / 5dBi	111.8 (44)
FG4305	430-440	435	5 dBd / 7dBi	193 (76)
FG4400	440-450	445	Unity dBd / 2dBi	66 (26)
FG4403	440-450	445	3 dBd / 5dBi	111.8 (44)
FG4405	440-450	445	5 dBd / 7dBi	193 (76)
FG4500	450-470	460	Unity dBd / 2dBi	66 (26)
FG4503	450-460	455	3 dBd / 5dBi	111.8 (44)
FG4505	450-460	455	5 dBd / 7dBi	193 (76)
FG4505W	450-470	460	5 dBd / 7dBi	193 (76)
FG4507	450-460	455	7 dBd / 9dBi	271.8 (107)
FG4603	460-470	465	3 dBd / 5dBi	111.8 (44)
FG4605	460-470	465	5 dBd / 7dBi	193 (76)
FG4607	460-470	465	7 dBd / 9dBi	271.8 (107)
FG4700	470-490	480	Unity dBd / 2dBi	66 (26)

GAIN / BEAMWIDTH CORRELATION

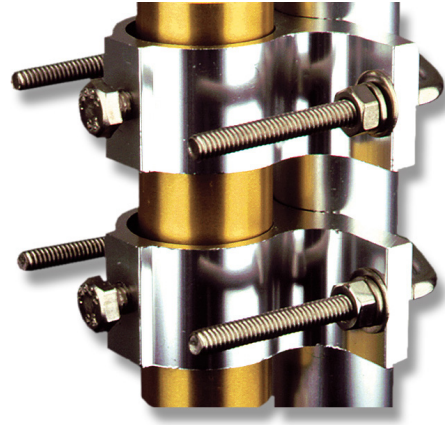
ANTENNA GAIN	BEAMWIDTH
Unity dBd / 2dBi	75 x 360°
3 dBd / 5dBi	33 x 360°
5 dBd / 7dBi	20 x 360°
7 dBd / 9dBi	70 x 360°

OPTIONAL ACCESSORIES

LIGHTNING ARRESTOR (LABH350NN)



FM2 MOUNTING KIT



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