

5065 Series Granger Broadband Compact HF Dipole Antennas

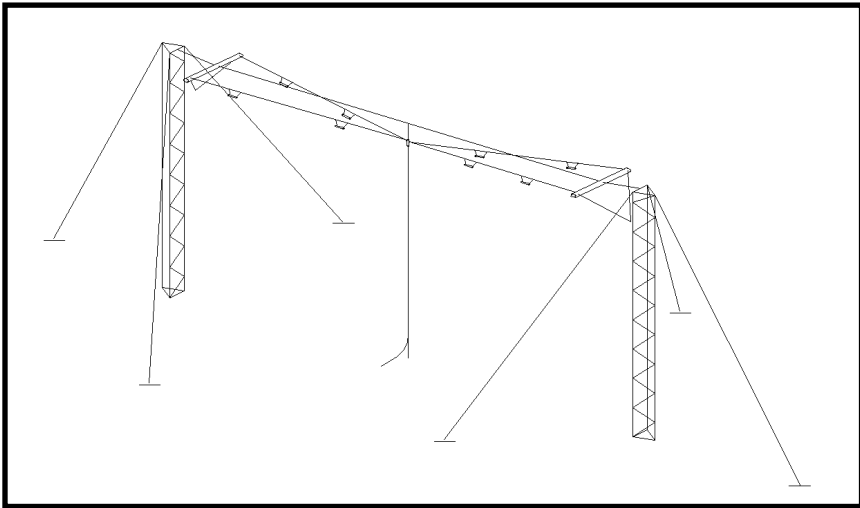
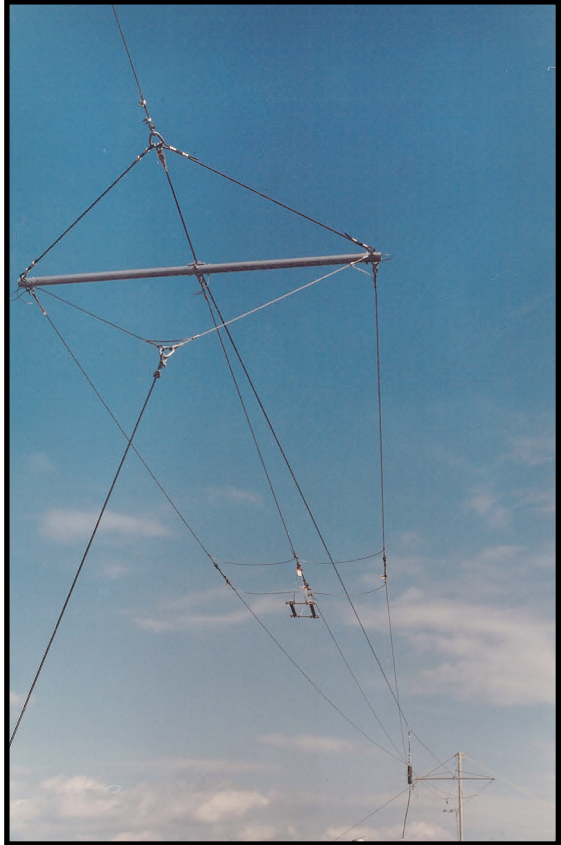
General Description

The 5065 Series of antennas are designed for use in applications where space is at a premium. As a compliment to the Kratos range of broadband dipole antennas (1765 and 3065), the 5065 Series is ideally suited for rooftop installation. Designed for short to medium-range communications, this antenna provides uniform high angle omnidirectional radiation patterns.

Features

Simple construction and prefabricated assemblies reduce installation timescales and maintenance procedures making the 5065 Series antennas ideal for sites where access is difficult.

Manufactured from lightweight materials, the antenna consists of stainless steel radiators supported from a single parafil catenary. This lightweight construction minimizes tower loading, thus reducing the size of the required support structures. Connection to the antenna is made by using a broadband matching unit, permitting the direct coupling of frequency agile equipment. Complete with all necessary accessories, installation of the 5065 Series may be accomplished by attaching the array to either existing or purposely designed support structures using suitable halyards.



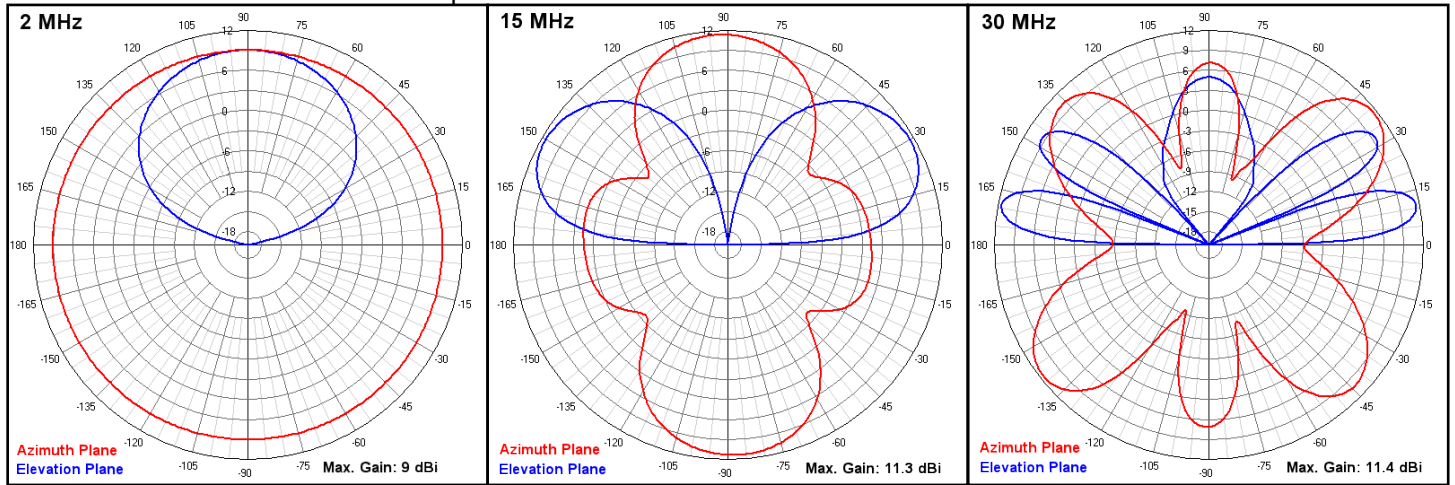
Characteristics

Type Frequency Range, MHz Power Rating, kW VSWR (50 ohms) Directivity, dBi	Omnidirectional, horizontal dipole 2-30 or 3-30 1 average, 2 peak 2.0:1 nominal, 2.3:1 peak 8.5 nominal
Antenna Efficiency % [32.8 ft (10 m) above perfect ground]	
2 MHz	7.32
5 MHz	34.36
10 MHz	50.89
20 MHz	51.93
30 MHz	84.13
Wind Survival Rating, mph (km/h) Without Ice With 0.5 in (12mm) Radial Ice	100 (160) 50 (80)

- **2-30 MHz Frequency Range**
- **1 kW Average, 2 kW Peak Power Rating**
- **Horizontal Polarization**
- **2.0:1 VSWR**
- **Short-to-Medium Range Communications**
- **Compact Roof Mount**

5065 Series Compact Dipole

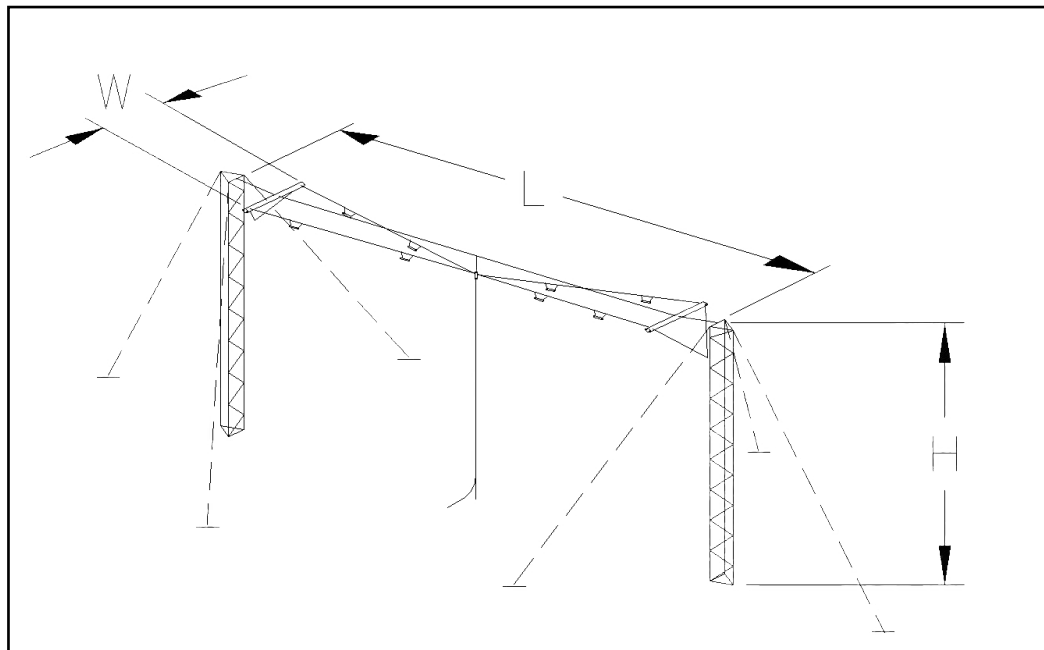
Directive Gain in dB Relative to Isotropic



Ordering Information

Type Number*	Frequency Range, MHz	Power Rating, KW		Input Connector Female	Dimensions		
		Average	Peak		Length (L), ft (m)	Height (H), ft (m)	Width (W), ft (m)
5065-100-2N	2.0-30	1	2	Type N Jack	144 (44)	32.8 (10)	4.5 (1.4)
5065-100-3N	2.0-30	0.15	0.3	Type N Jack	144 (44)	32.8 (10)	4.5 (1.4)
5065-101-2N	3.0-32	1	2	Type N Jack	97.7 (30)	32.8 (10)	6.5 (2)
5065-101-3N	3.0-32	0.15	0.3	Type N Jack	97.7 (30)	32.8 (10)	6.5 (2)
5065-100-2NKA	2.0-30	1	2	Type N Jack	144 (44)	32.8 (10)	4.5 (1.4)
5065-100-3NKA	2.0-30	0.15	0.3	Type N Jack	144 (44)	32.8 (10)	4.5 (1.4)
5065-101-2NKA	3.0-32	1	2	Type N Jack	97.7 (30)	32.8 (10)	6.5 (2)
5065-101-3NKA	3.0-32	0.15	0.3	Type N Jack	97.7 (30)	32.8 (10)	6.5 (2)

* The letter suffix "KA" denotes that the antenna is supplied with "knock-down" (unassembled) towers



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