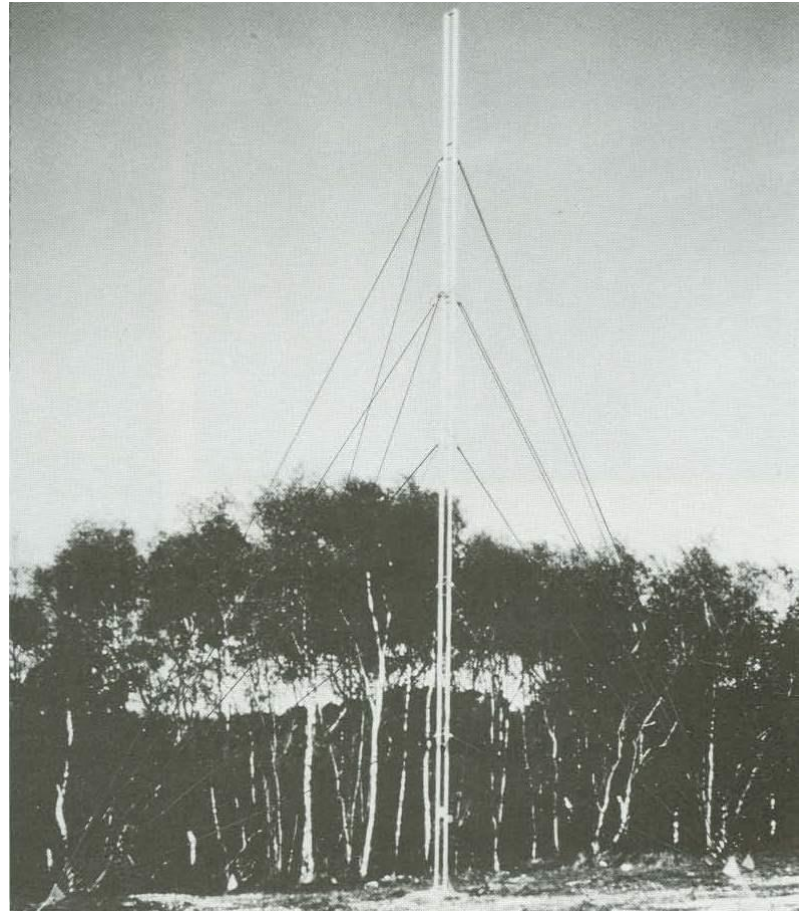


# Type 4094 Series GRANGER™ Omnidirectional HF Antennas

- 2-30 MHz Frequency Range
- 1 kW Average, 2 kW Peak Power Rating
- Vertical Polarization
- 2:5:1 Nominal, 3:0:1 Maximum VSWR
- Short-, Medium-, Long-Range Communications
- Deployable or Fixed Versions

## General Description

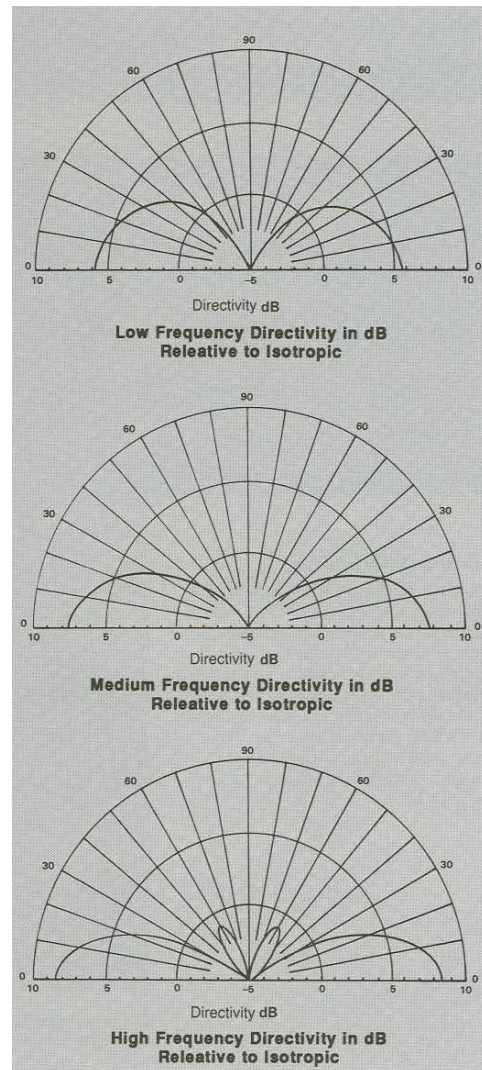
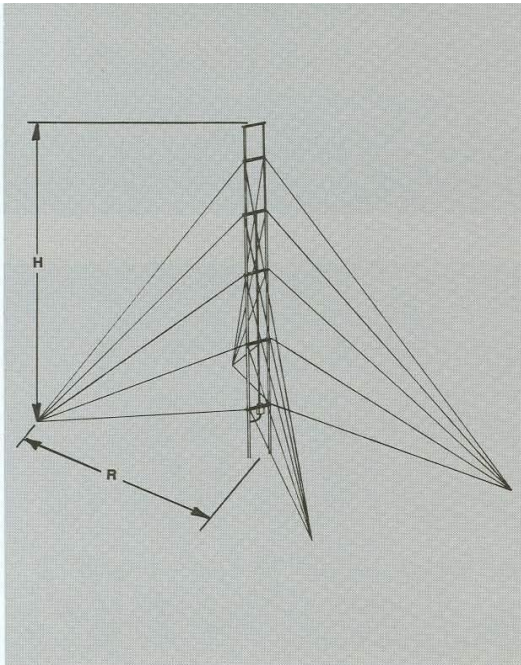
The Type 4094 is a vertically polarized omnidirectional HF broadband antenna that offers polarity diversity when used with the 3065 Series broadband dipole antenna. This is the ideal antenna for locations where ground area is limited and rapid deployment is important. The tower is 60ft (18.3 m) high with a guying radius of 30ft (9.1 m).



## Characteristics

Type	Omnidirectional vertical dipole (terminated)
Frequency Range, MHz	2-30
Power Rating, kW	1 average, 2 peak or receive only
Polarization	Vertical
VSWR (50 ohms)	2.5:1 nominal, 3.0:1 maximum
Efficiency	0.5% minimum to 60% across bandwidth
Ground Screen Elements Required	None
Guying Radius, ft (m) (R on diagram)	30 (9.1)
Tower Height, ft (m) (H on diagram)	60 (18.3)
Ground Area Required, ft <sup>2</sup> (m <sup>2</sup> )	820 (76) nominal
Wind Survival Rating, mph (km/h)	
Without ice	95 (150)
With 0.26 in (6.5 mm) radial ice	65 (100)

## Typical Elevation Plane Radiation Patterns Over Perfectly Conducting Ground



### Ordering Information

Type Number	Frequency Range MHz	Power Rating, kW Average	Peak	Input Connector
4094-1F	2-30	1	2	Type N Jack (female)
4094-2F	2-30	Receive Only	Receive Only	Type N Jack (female)