



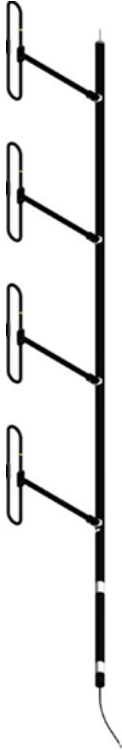
### F-33122-TM

The F-33122-TM is a Wide Band, Heavy Duty Antenna designed for multicoupled systems. The antenna's pattern is not field adjustable. The antenna is designed to be mounted on the top of the tower and offers a choice of radiation patterns that are determined by the dipole-to-mast spacing. The F-33122-TM has internal cabling and pattern is not field adjustable. This antenna is very rugged and is well suited for use in severe environmental conditions.

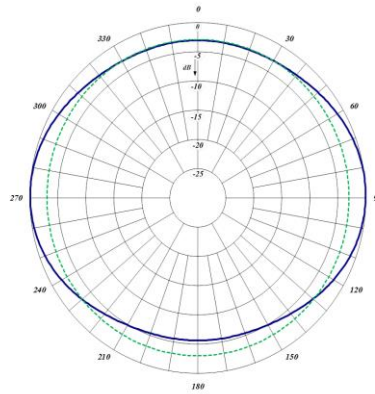
- Each antenna is offered in a 1/2, 1/4, or 3/8 wave versions.
- This antenna is the Heavy Duty Version.
- Black Anodized.

| Electrical Specifications                         | F-33122-TM           |
|---|----------------------|
| Frequency Range, MHz                              | 138-174              |
| Nominal Gain, dBd                                 | 8.0-8.5              |
| Number of Dipoles                                 | 4                    |
| Bandwidth 1.5:1 VSWR, MHz                         | 36                   |
| Polarization                                      | Vertical             |
| Pattern   | Offset/Bidirectional |
| Power Rating, Watts                               | 450                  |
| Nominal Impedance, Ohms                           | 50                   |
| Lightning Protection                              | DC Ground            |
| Standard Termination                              | Type N Male          |
| Mechanical Specifications                         | F-33122-TM           |
| Length, in (mm)                                   | 246 (6248)           |
| Width (1/2 Wave Spacing), in (mm)                 | 42 (1067)            |
| Weight, lbs. (kg)                                 | 80 (36)              |
| Rated Wind Velocity, No Ice, mph (km/h)           | 120 (193)            |
| Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)  | 95 (153)             |
| Lateral Thrust @ 100 mph, wind, lbs. (N)          | 229 (1019)           |
| Bending Moment @ top clamp: 100 mph, ft.*lb (N*m) | 1623 (2201)          |
| Projected Area, ft <sup>2</sup> (m <sup>2</sup> ) | 8.6 (0.80)           |
| Mounting Information Mast O.D. (mm)               | 2.9 (74)             |

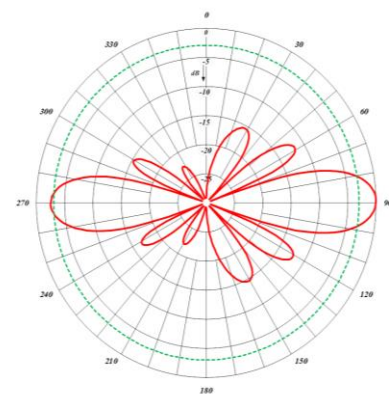




1/2 wave: F-33122-TM-1/2

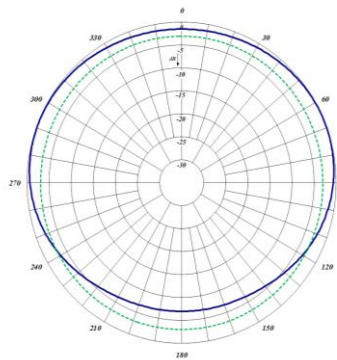


Horizontal Pattern

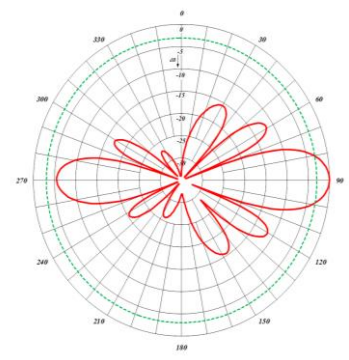


Vertical Pattern

1/4 wave: F-33122-TM-1/4

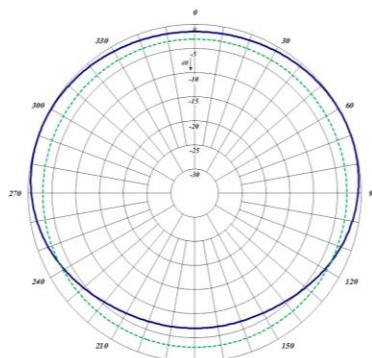


Horizontal Pattern

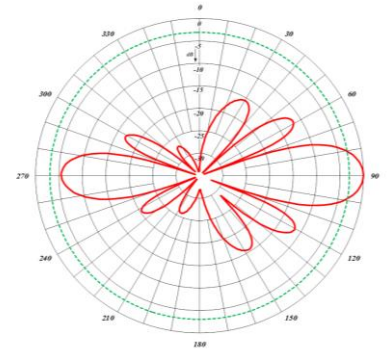


Vertical Pattern

3/8 wave: F-33122-TM-3/8



Horizontal Pattern



Vertical Pattern