

## DUAL BAND DUAL FEED ANTENNA



138-174 MHz, 215-225 MHz

### 872/872F-70-2TM

The 872/872F-70-2TM antenna is a wide band dual band antenna designed for multicoupled systems. The antenna covers the 138-174 MHz and 215-225 MHz band, and offers a choice of radiation patterns that are determined by the dipole-to-mast spacing. This antenna is very rugged. It has an internal cabling; it is not field adjustable. The 872/872F-70-2TM antenna is well suited for use in severe environmental conditions. The antenna is offered in a 1/4, 3/8 or 1/2 wave pattern spacing versions.

#### Ordering information:

872/872F-70-2TM-1/2 (1/2 wave version)

872/872F-70-2TM-1/4 (1/4 wave version)

872/872F-70-2TM-3/8 (3/8 wave version)

Electrical Specifications	872/872F-70-2TM-1/2
Frequency Range, MHz	138-174, 215-225
Nominal Gain, dBd	5/5.5, 5/5.5
Bandwidth 1.5:1 VSWR, MHz	138-174, 215-225
Polarization	Vertical
Pattern	Bidirectional
Power Rating, Watts	300
PIM. (2x20W, 3rd ord.), dBc	150
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Temperature Range	-40 to +60 C°
Termination	Type N Male attached to end of the 30" (762 mm) flexible lead
Mechanical Specifications	872/872F-70-2TM-1/2
Length, in (mm)	246 (6248)
Width (1/2 Wave Spacing), in (mm)	40 (1016)
Weight, lbs. (kg)	63 (28.6)
Rated Wind Velocity, No Ice, mph (km/h)	115 (185)
Rated Wind Velocity, 1/2" ice, mph (km/h)	90 (145)
Lateral Thrust @ 100 mph, wind, lbs. (N)	195 (872,8)
Bending Moment @ top clamp: 100mph,	1109 (1500,4)
Space between clamp	40" (1016 mm)
Mounting Information Mast O.D. (mm)	2.9 (74)

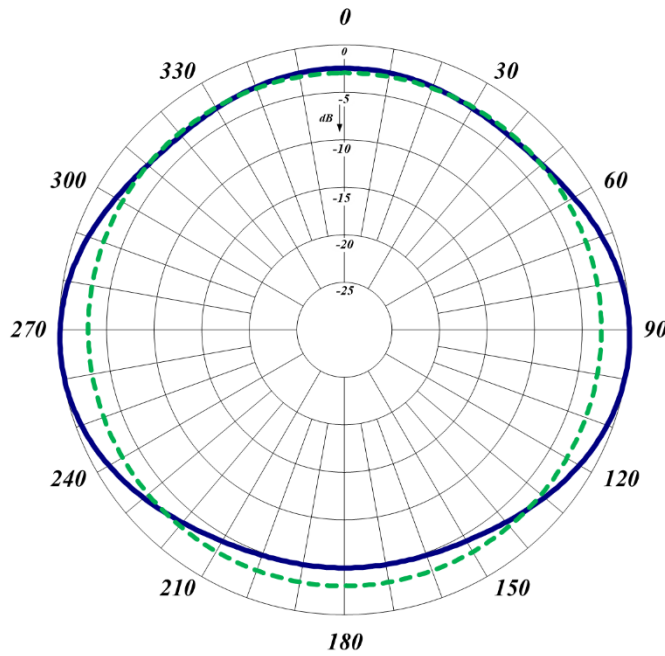


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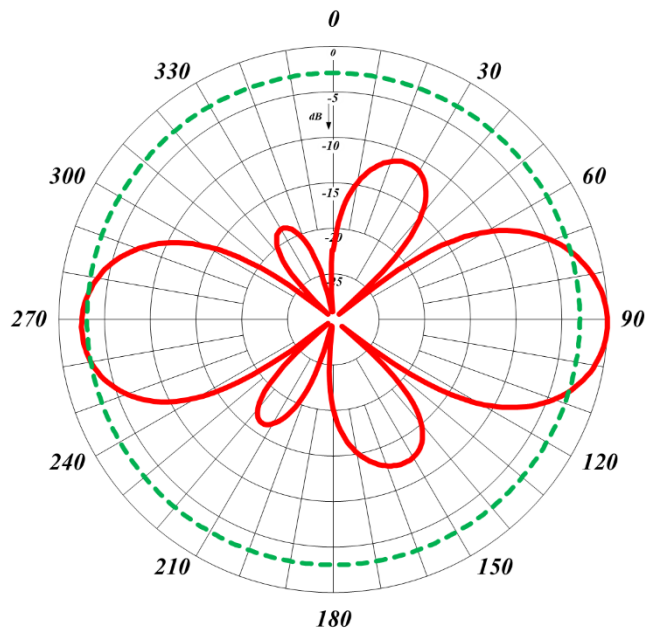
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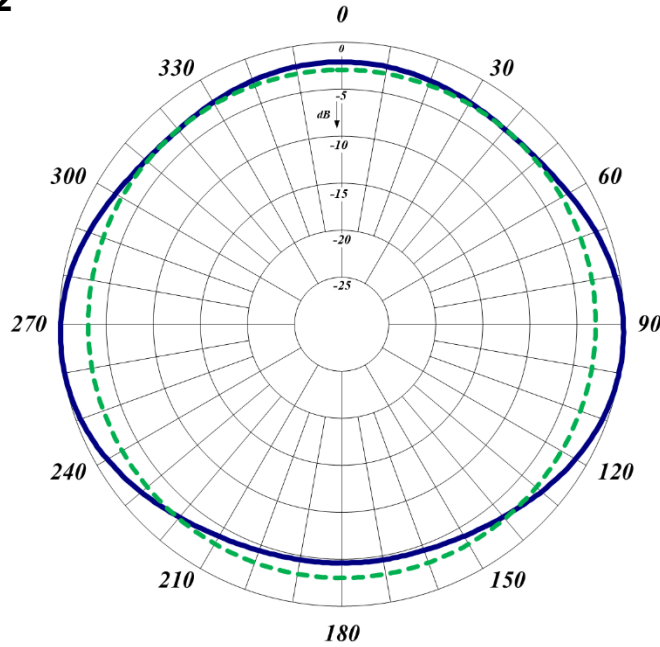


872/872F-70-2TM-1/2: Horizontal Radiation pattern (160 MHz)

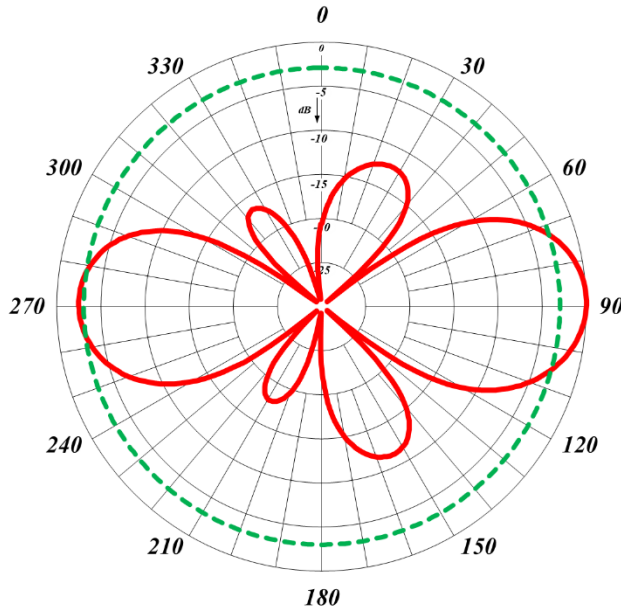


872/872F-70-2TM-1/2: Vertical Radiation pattern (160 MHz)

872/872F-70-2TM-1/2



872/872F-70-2TM-1/2: Horizontal Radiation pattern (220 MHz)



872/872F-70-2TM-1/2: Vertical Radiation pattern (220 MHz)



872/872F-70-2TM-1/2