

### VHF Ground Plane Antenna

#### F11

#### Description

The F11 is a vertically polarized broadband coaxial stub antenna designed for the VHF communications band. It is designed to withstand the most severe weather conditions. Protection from lightning is provided by grounding the top section of the stub through the stainless steel tie rod to the antenna ground plane.

#### Benefits

- Robust design and construction
- Very broadband, 108-174MHz
- Low profile

#### ELECTRICAL

FREQUENCY RANGE	108-174 MHz
GAIN (dBi)	2.0 (+0 / -1)
VSWR (Nom.)	Under 2:1
POLARIZATION	Vertical
CROSS POL REJECTION	20 dB
HORIZONTAL PATTERN	Omni Directional within 0.5 dB
HPBW	89°
IMPEDANCE	50 Ohm
TERMINAL TYPE	N Female
POWER RATING	1200 Watts
OPERATING TEMPERATURE	-40° to 176°F (-40° to 80°C)

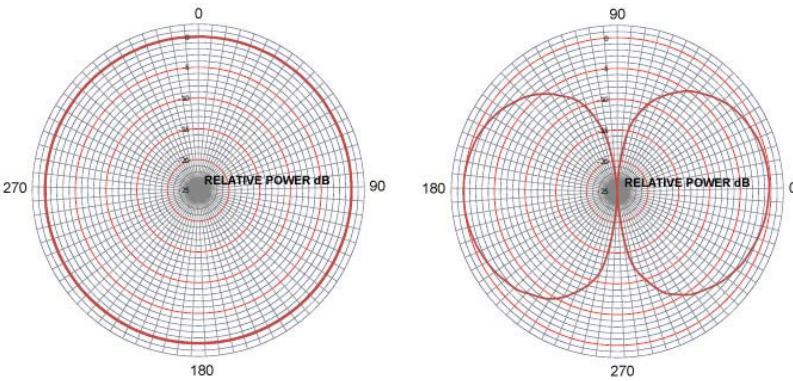
#### MECHANICAL

OVERALL HEIGHT	40 in. (101.6 cm)
STUB HEIGHT	22.375 in. (56.83 cm)
SKIRT DIAMETER	43 in. (109.2 cm)
WEIGHT	6.22 lbs (2.82 kg)
COLOR	Gray
MOUNT	1.5" to 3" U-BOLT

#### WIND LOAD

WIND AREA	(NO ICE)	0.49 SQ. FT.
	(1/2" RADIAL ICE)	1.14 SQ. FT.
WIND LOAD	(NO ICE)	29.5 FT-LBS*
	(1/2" RADIAL ICE)	19.7 FT-LBS**
WIND RATING	160 M.P.H.***	

\* Wind Speed = 100 MPH at sea level with 100% Humidity at 70° F.  
 \*\* Wind Speed = 50 MPH at sea level with 100% Humidity at 0° F.  
 \*\*\* Maximum Wind Speed at sea level with 100% Humidity at 70° F. Safety Factor of 1.65 included.



F11 – AZIMUTH

F11 – ELEVATION

TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.

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