

UHF Ground Plane Antenna

AS-390

Description

The AS-390 is a vertically polarized broadband coaxial stub antenna designed for the UHF communications band. It is designed to withstand the most severe weather conditions. Protection from the 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
- Antenna is pressure tested
- Low profile
- Ingress protection rating IP68
- Heavy duty radials
- Integrated Naval pressure fitting

ELECTRICAL

FREQUENCY RANGE	225-400 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	64°
IMPEDANCE	50 Ohm
TERMINAL TYPE	N Female
POWER RATING	700 Watts
OPERATING TEMPERATURE	-40° to 176°F (-40° to 80°C)

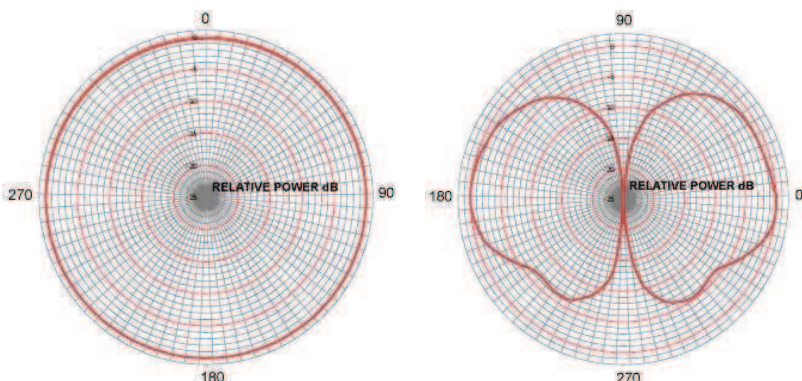
MECHANICAL

OVERALL HEIGHT	16 in. (40.64 cm)
STUB HEIGHT	9.625 in. (24.45 cm)
SKIRT DIAMETER	23 in. (58.42 cm)
WEIGHT	3.75 lbs (1.7 kg)
COLOR	Gray
MOUNT	1.5" to 3" U-BOLT

WIND LOAD

WIND AREA	(NO ICE)	0.20 SQ. FT.
	(½" RADIAL ICE)	0.47 SQ. FT.
WIND LOAD	(NO ICE)	6.0 FT-LBS*
	(½" RADIAL ICE)	4.1 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.



AS-390 (UHF) – AZIMUTH

AS-390 (UHF) – ELEVATION

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