



COAX-STUB ANTENNA

- Models F11 and AS-390/SRC

The F11 and AS-390/SRC are vertically polarized broadband coaxial stub antennas designed for the VHF and UHF communications band. Both have been 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.

SPECIFICATIONS

ELECTRICAL

MODEL	F11 (VHF)	AS-390/SRC (UHF)
FREQUENCY RANGE	108-174 MHz	225-400 MHz
GAIN (dBi)	2.0 (+0 / -1)	2.0 (+0 / -1)
VSWR (NOM.)	Under 2:1	Under 2:1
POLARIZATION	Vertical	Vertical
CROSS POL REJECTION	20 dB	20 dB
HORIZONTAL PATTERN	Omni Directional within 0.5 dB	Omni Directional within 0.5 dB
VERTICAL PATTERN	95° ± 15° (depending on frequency)	95° ± 15° (depending on frequency)
IMPEDANCE	50 Ohms	50 Ohms
TERMINAL TYPE	N Female	N Female
POWER RATING	400 Watts at 170 MHz	200 Watts at 400 MHz
	500 Watts at 132 MHz	
OPERATING TEMPERATURE	-40 C to +80 C	-40 C to +80 C
	(-40 F to 176 F)	

MECHANICAL

MODEL	F11 (VHF)	AS-390/SRC (UHF)
OVERALL HEIGHT	40 inches	16 inches
STUB HEIGHT	22.375 inches	9.625 inches
SKIRT DIAMETER	43 inches	23 inches
WEIGHT	6.22 lbs	3.75 lbs
MOUNTING	3.10" O.D. Mast	3.10" O.D. Mast

WIND LOADING

MODEL	F11 (VHF)	AS-390/SRC (UHF)
WIND AREA (NO ICE)	0.49 SQ FT	0.20 SQ FT
(1/2" RADIAL ICE)	1.14 SQ FT	0.47 SQ FT
WIND LOAD *(NO ICE)	29.5 FT-LBS	6.0 FT-LBS
** (1/2" RADIAL ICE)	19.7 FT-LBS	4.1 FT-LBS
SURVIVAL RATING		
*** (NO ICE)	335 M.P.H.	530 M.P.H.

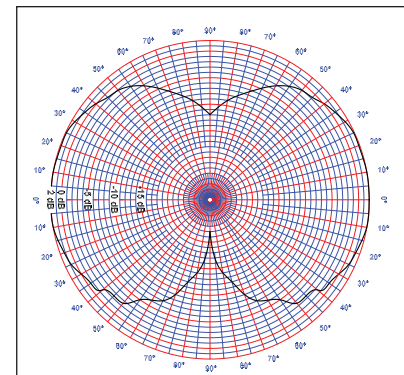
* Wind Speed = 100 MPH at sea level with 100% Humidity at 70° Fahrenheit.

** Wind Speed = 50 MPH at sea level with 100% Humidity at 0° Fahrenheit.

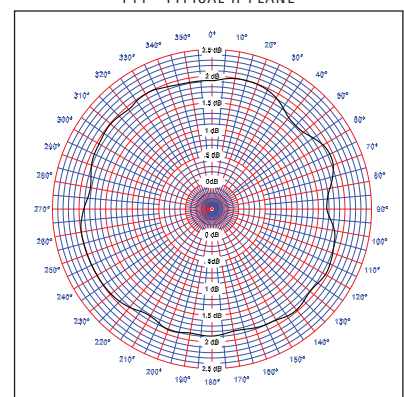
*** Maximum Wind Speed at sea level with 100% Humidity at 70° Fahrenheit. Safety Factor of 1.65 included.

ANTENNA PATTERNS

F11 - TYPICAL E-PLANE



F11 - TYPICAL H-PLANE



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

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