

SUM38002 Elliptical Polarization UHF Broadband Compact Antenna

Narrow Cardioid Pattern



Dimensions
 Height: 3040 mm (10 feet)
 Radome Ø: 555 mm (22")

UHF
 Band IV-V TV

Operative Frequency
 470 - 700 MHz

Input Size:
 2 x EIA 3-1/8"

ELECTRICAL CHARACTERISTICS

Frequency Range	470 - 700 MHz
Input impedance	50 OHM
Polarization	Horizontal/Vertical/Circular/ Adjustable Elliptical*
Gain (Mid band)	12.5 dBd (H component) 13.5 dBd (V Component)
Electrical Beam Tilt	1° Typical (other values on request)
VSWR (Circular Pol.)	<1.2
Max input Power (mid band)	10 kW per Input (20 kW for any configuration)

* Selectable H/V Ratio for each Channel

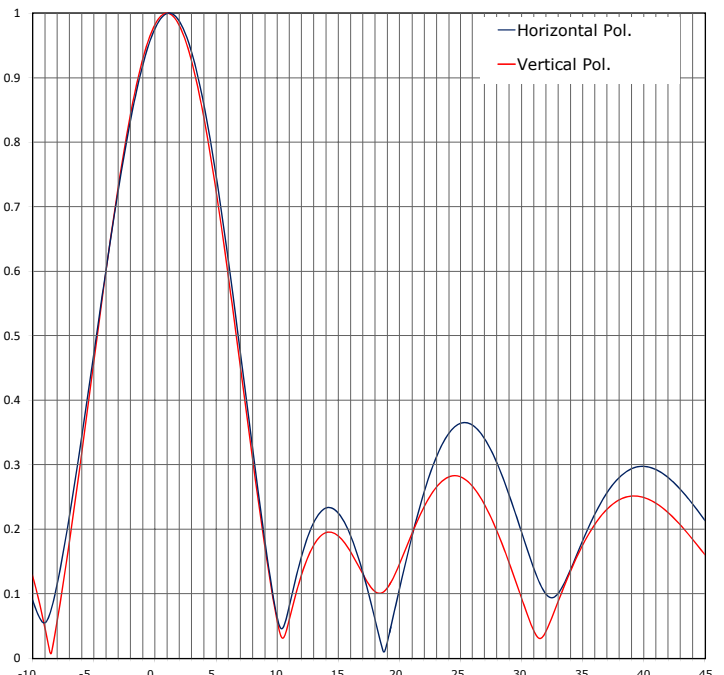
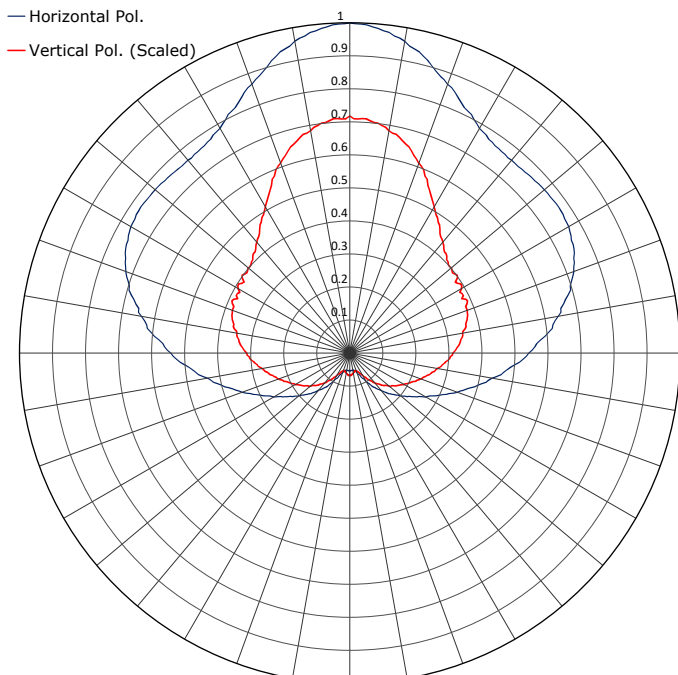
MECHANICAL CHARACTERISTICS

Input Connector	2 x EIA 3-1/8"
Weight/Mass	2157 N (220 Kg 485 lbs)
Projected Area	1.7 m ² / 18 ft ²
Max Wind (survival)	200 Kph
Operating temperature	-50°C to +60°C
Mounting	Tower side / Tower Leg (brackets NOT supplied)

Materials

Cylindrical Radome	Fiberglass
Internal Lines/ Dipoles	Silver Plated Alu Brass/Copper
Mounting Brackets	Hot Dip Galvanized Steel
Hardware	Stainless Steel

RADIATION PATTERNS (@ MID BAND)



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 Data on this datasheet can vary without previous notice