

Frequency Range	1710-2690
Polarization	±45°
Half-Power Beam Width	13°
Horizontal beam centers	30°

Single Band Spherical 1710-2690 17dBi, 1 beam, 13-degree Antenna

Electrical Specifications

Frequency range (MHz)	1710-2690
Polarization	±45
Gain (dBi)	16.5±0.5
Sidelobe Suppression (dB)	≥15
Gain Decreased(dBi) @20°Right deflected From Maximum radiation direction	≥ -6
Gain Decreased(dBi) @40°Right deflected From Maximum radiation direction	≥ -7
Horizontal Plane 3dB Beamwidth (°)	13±3
Horizontal Plane 10dB Beamwidth (°)	25±4
Vertical Plane 3dB Beamwidth (°)	13±3
Vertical Plane 10dB Beamwidth (°)	25±5
Horizontal beam centers (°)	-30
Beam Quantity	1
VSWR	≤1.5
Isolation Between Polarization (dB)	≥25
Front to Back Ratio (dB)	≥25
Intermodulation IM3 dBc (2×43dBm)	≤-150
Power Rating (W)	2 x 180W
Input Impedance (Ω)	50
Lighting Protection	DC Ground

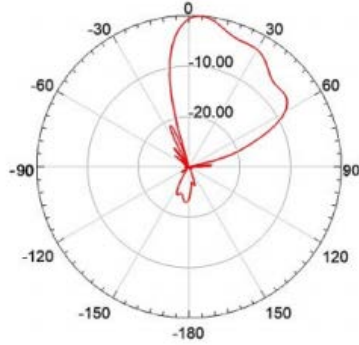


Mechanical Specifications

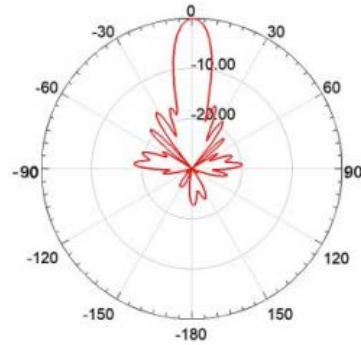
Radome Material	ASA
Connector Type and Location	4.3-10 Female x2 Bottom
Mechanical Downtilt (°)	0-20
Dimensions, HxWxD (mm)	690×645×645
Packing Size (mm)	825×730×860
Net Weight (Kg)	15
Gross Weight (Kg)	23.6
Clip Weight (Kg)	5.8
Max. Wind Velocity(m/s)	55
Mounting hardware Diameter (mm)	∅ 40 mm ~ ∅ 114 mm
Operational Temperature(°C)	-40 to +70
Operational Humidity (%)	<95

Frequency Range	1710-2690
Polarization	$\pm 45^\circ$
Half-Power Beam Width	13°
Horizontal beam centers	30°

Radiation Pattern (1710 -2690 MHz)



Horizontal Pattern



Vertical Pattern