

Type LS102-1Z-0R15

Single Band Spherical 1710-2690 20dBi, 1 beam, 15-degree Antenna

Electrical Specifications

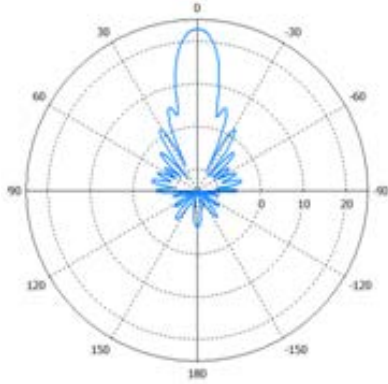
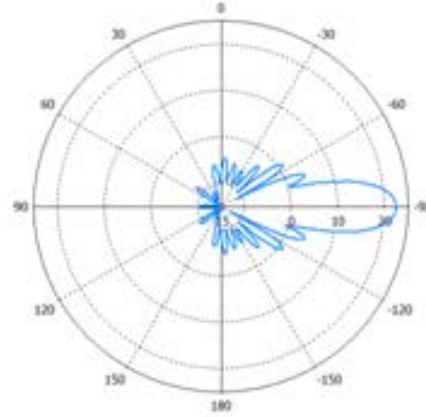
Frequency range (MHz)	1710-2690
Polarization	± 45
Gain (dBi)	20 ± 1
Sidelobe Suppression (dB)	≥ 15
Horizontal Plane 3dB Beamwidth ($^\circ$)	15 ± 4
Horizontal Plane 10dB Beamwidth ($^\circ$)	28 ± 3
Vertical Plane 3dB Beamwidth ($^\circ$)	15 ± 4
Vertical Plane 10dB Beamwidth ($^\circ$)	28 ± 3
Horizontal beam centers ($^\circ$)	0
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 100W
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 ($^\circ$)	0-20
Dimensions, HxWxD (mm)	690×645×645
Packing Size (mm)	825×730×860
Net Weight (Kg)	< 14.5
Gross Weight (Kg)	< 28.4
Clip Weight (Kg)	5.8
Max. Wind Velocity(m/s)	55
Mounting hardware Diameter (mm)	$\varnothing 40 \text{ mm} \sim \varnothing 114 \text{ mm}$
Operational Temperature($^\circ\text{C}$)	-40 to +70
Operational Humidity (%)	<95

Radiation Pattern (1710 -2690 MHz)

Horizontal PatternVertical Pattern