RD8

Accessory: Radome, used with SP8 parabolic reflector antenna

General Specifications

Item	Accessory: Radome
Used With	SP8 parabolic reflector antenna

Comments

Use RD series radomes with Standard Performance Parabolic Reflector Antennas to reduce windloading and improve reliability. RD radomes can be factory attached at no charge when the SP antenna is ordered, or the radome can be supplied by itself and fit onto a pre-existing antenna.

Electrical Specifications

Attenuation, 2 Ghz	0.2 dB
Attenuation, 5 Ghz	0.4 dB
Attenuation, 7 GHz	0.5 dB
Attenuation, 10 GHz	0.6 dB
Attenuation, 13 GHz	0.7 dB
Add to Antenna VSWR, Max, 2 GHz	0.02
Add to Antenna VSWR, Max, 5 GHz	0.02
Add to Antenna VSWR, Max, 7 GHz	0.02
Add to Antenna VSWR, Max, 10 GHz	0.03
Add to Antenna VSWR, Max, 13 GHz	0.04

Mechanical Specifications

Net Weight	85 lbs | 38.5 kg
Mechanical Configuration	RD

Operating temperature range	-40 to +60 C

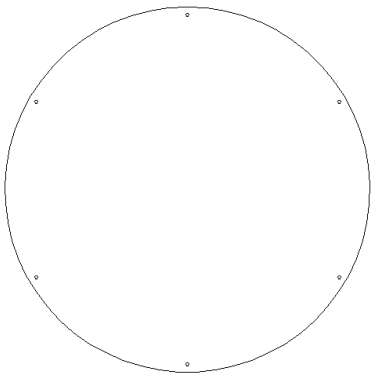
Regulatory Compliance

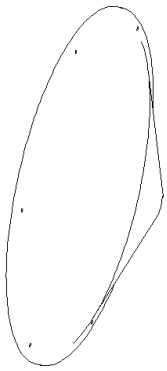
RoHS-complaint	Yes

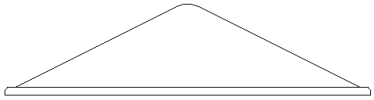
Shipping Information

Package Type	Wood Crate
Gross Weight	432 lbs | 195.9 kg
Dimensions, L x W x H	102 x 60 x 91in | 259 x 152 x 231 cm
Shipping Volume	322.3 cu ft | 9.09 cu m

Technical Drawings







OL-RD

Radiowaves Glossary

Axial Force:	Force applied to the face of the antenna due to wind at specified wind speed
Beamwidth	The total width of the main beam measured in degrees between the 3-dB (half-power) points on either side of the peak of the main beam
Cross Polarization Discrimination (XPD)	The dB difference between maximum received co-polarized signal at electrical boresight and maximum received cross-polarized signal
Front to Back Ratio (F/B)	The dB difference between maximum received signal at electrical boresight to maximum received signal behind the antenna (180 +/- 40 degrees)
Gain	A measure of how well the antenna focuses available energy into a single beam. Larger antennas typically have higher gains and smaller beamwidths.
Gross Weight	Shipping weight, includes weight of antenna plus packaging materials
Net Weight	Weight of antenna only as mounted on tower.
Operating Frequency Band	The frequency limits between which the antenna meets declared specifications. Antennas may operate outside the frequency band with mild performance degradation.
Return Loss	A measure of how much rf energy incident upon the antenna is reflected back from whence it came, expressed as a negative dB value.
Side Force (FS)	Force applied to the side of the antenna due to wind at specified wind speed
Twisting Moment (MT)	The torsional (twisting) moment (force x distance) applied to the mounting pipe due to wind at the specified wind speed.
VSWR	A measure of how much rf energy incident upon the antenna is reflected back from whence it came, expressed as a ratio
Wind Velocity Operational	Wind speed where the antenna deflection is less than or equal to 0.1 degrees
Wind Velocity Survival Rating	Wind speed where the antenna will not suffer permanent damage, but may require re-pointing.