

1.2 m | 4 ft Standard Performance Parabolic Reflector Antenna, Dual-polarized, 7.75-8.5GHz

SPD4-8



SPECIFICATIONS

General

Antenna Type	Standard Performance Parabolic Reflector Antenna
Size, nominal	4 ft 1.2 m
Polarization	Dual

Standard RF Connector Type	CPR112G
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	7.75 - 8.5 GHz
Half Power Beamwidth, Horizontal	2.3 degrees
Half Power Beamwidth, Vertical	2.3 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	45 dB

Gain, Low Frequency	36.3 dBi
Gain, Mid Frequency	36.9 dBi
Gain, High Frequency	37.5 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	
Fine Elevation Adjustment	+/- 25 degrees	
Mounting Pipe Diameter, Min	4.5 inch 11.4 cm	
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm	
Net Weight	60 lbs 27 kg	80 lbs 36 Kg with RD radome
Wind Velocity Operational	90 mph 145 km/h	
Wind Velocity Survival Rating	125 mph 201 km/h	

Mechanical Configuration	SP4	
Axial Force (FA)	855 lbs 3803 N	469 lbs 2087 Nm with RD radome
Side Force (FS)	45 lbs 200 N	93 lbs 414 Nm with RD radome
Twisting Moment (MT)	1120 ft-lbs 1518 Nm	784 lbs 1063 Nm with RD radome
Operating Temperature Range	-40 to +60 C	
Max Pressure, PSIG, (if waveguide interface)	5	

Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	undeclared
RoHS-compliant	Yes

Shipping Information

Package Type	Wood Crate
Gross Weight	126 lbs 57.15 kg

Dimensions, L x W x H	59 x 19 x 60in 150 x 48 x 152 cm
Shipping Volume	38.92 cu ft 1.1 cu m

*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.

TECHNICAL DRAWINGS

