0.6 m | 2 ft Standard Performance Parabolic Reflector Antenna, Dual-polarized, 12.7-13.25GHz

SPD2-13

The SP Standard Performance Series by RadioWaves offers a full line of cost effective standard performance parabolic antennas engineered to deliver reliable radio links. Designed for both unlicensed and licensed band applications, RadioWaves field-proven pre-assembled SP antennas and robust pole-mounts ensure “set and forget” installation with minimal post-installation maintenance. If it’s rugged, it must be RadioWaves!

FEATURES AND BENEFITS

O Standard Performance Parabolic Antennas – Excellent performance for a wide range of licensed and unlicensed applications

O Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality

SPECIFICATIONS

General

Antenna Type	Standard Performance Parabolic Reflector Antenna
Size, nominal	2 ft | 0.6 m
Polarization	Dual

Standard RF Connector Type	WR75
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	12.7 - 13.25 GHz
Half Power Beamwidth, Horizontal	2.8 degrees
Half Power Beamwidth, Vertical	2.8 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	44 dB

Gain, Low Frequency	35.1 dBi
Gain, Mid Frequency	35.2 dBi
Gain, High Frequency	35.4 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

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Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	
Fine Elevation Adjustment	+/- 30 degrees	
Mounting Pipe Diameter, Min	2 inch | 5.08 cm	
Mounting Pipe Diameter, Max	4.5 inch | 11.4 cm	
Net Weight	22 lbs | 9.9 kg	26 lbs | 11.7 Kg with RD radome
Wind Velocity Operational	90 mph | 145 km/h	
Wind Velocity Survival Rating	125 mph | 201 km/h	

Mechanical Configuration	SP2	
Axial Force (FA)	222 lbs | 988 N	122 lbs | 543 Nm with RD radome
Side Force (FS)	14 lbs | 62 N	24 lbs | 107 Nm with RD radome
Twisting Moment (MT)	225 ft-lbs | 305 Nm	194 lbs | 263 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	SRSP312.7B

ETSI	302217 R1 C1
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	25 lbs | 11.3 kg

Dimensions, L x W x H	28 x 8 x 28in | 71 x 20 x 71 cm
Shipping Volume	3.63 cu ft | 0.1 cu m

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

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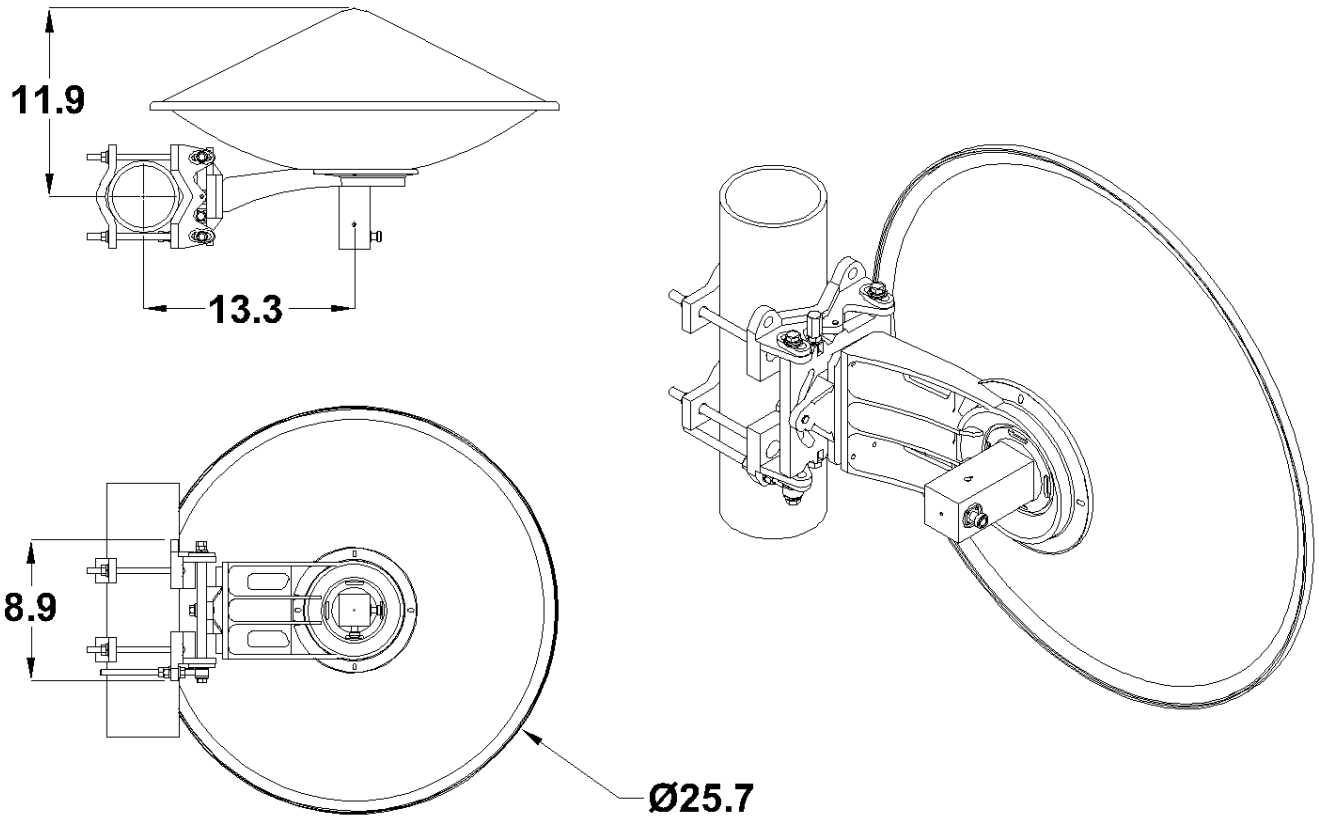
TECHNICAL DRAWINGS



SP2

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