

0.9 m | 3 ft Standard Performance Parabolic Reflector Antenna, Dual-polarized, 7.75-8.5GHz

SPD3-8



SPECIFICATIONS

General

Antenna Type	Standard Performance Parabolic Reflector Antenna
Size, nominal	3 ft 0.9 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	3 degrees
Half Power Beamwidth, Vertical	3 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	42 dB

Gain, Low Frequency	33.8 dBi
Gain, Mid Frequency	34.4 dBi
Gain, High Frequency	35.1 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	35 lbs 15.8 kg	43 lbs 19.4 Kg with RD radome
Wind Velocity Operational	90 mph 145 km/h	
Wind Velocity Survival Rating	125 mph 201 km/h	

Mechanical Configuration	SP3	
Axial Force (FA)	492 lbs 2189 N	271 lbs 1206 Nm with RD radome
Side Force (FS)	40 lbs 178 N	64 lbs 285 Nm with RD radome
Twisting Moment (MT)	545 ft-lbs 739 Nm	394 lbs 534 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

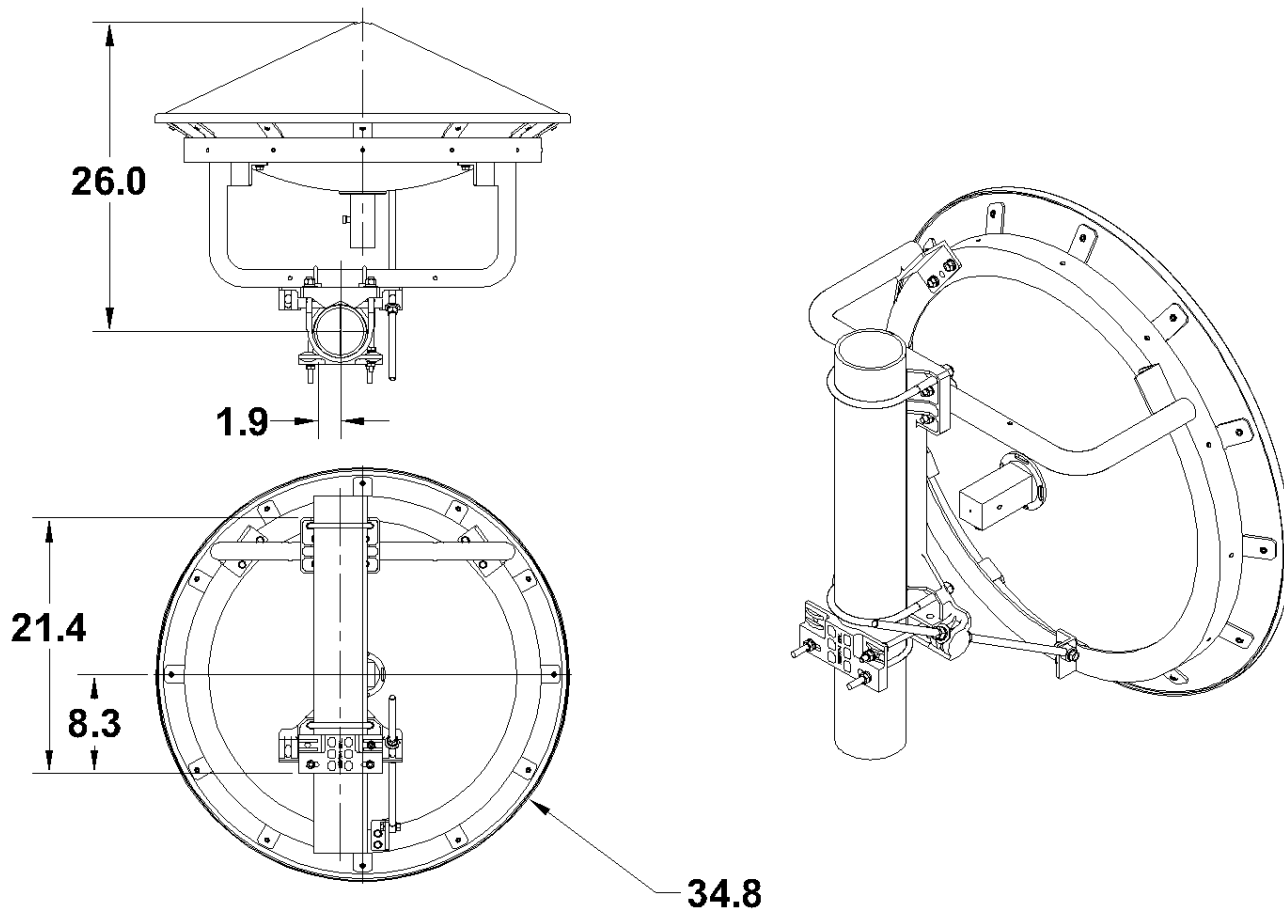
Shipping Information

Package Type	Wood Crate
Gross Weight	78 lbs 35.3 kg

Dimensions, L x W x H	40 x 17 x 44in 101 x 43 x 140 cm
Shipping Volume	17.31 cu ft 0.49 cu m

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

TECHNICAL DRAWINGS



SP3