

1.8 m | 6 ft Standard Performance Parabolic Reflector Antenna, Dual-polarized, 2.4-2.7GHz

SPD6-2.4



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

- Standard Performance Parabolic Antennas – Excellent performance for a wide range of licensed and unlicensed applications
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality

SPECIFICATIONS

General

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|---------------|--|
| Antenna Type | Standard Performance Parabolic Reflector Antenna |
| Size, nominal | 6 ft 1.8 m |
| Polarization | Dual |

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|------------------------------|------------------------------------|
| Standard RF Connector Type | N-Female |
| Standard RF Connector Suffix | NS (append suffix to model number) |

Electrical

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|-----------------------------------|---------------|
| Operating Frequency Band | 2.3 - 2.7 GHz |
| Half Power Beamwidth, Horizontal | 4.8 degrees |
| Half Power Beamwidth, Vertical | 4.8 degrees |
| Cross-Polarization Discrimination | 30 dB |
| Front to Back Ratio (F/B) | 38 dB |

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|----------------------|----------|
| Gain, Low Frequency | 29.6 dBi |
| Gain, Mid Frequency | 30.1 dBi |
| Gain, High Frequency | 30.6 dBi |
| VSWR | 1.5:1 |
| Return Loss | -14 dB |

Mechanical

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|-------------------------------|--------------------|----------------------------------|
| 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 | 95 lbs 42.8 kg | 125 lbs 56.3 Kg with RD radome |
| Wind Velocity Operational | 90 mph 145 km/h | |
| Wind Velocity Survival Rating | 125 mph 201 km/h | |

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|--|-----------------------|-----------------------------------|
| Mechanical Configuration | SP6 | |
| Axial Force (FA) | 1768 lbs 7865 N | 973 lbs 4329 Nm with RD radome |
| Side Force (FS) | 98 lbs 436 N | 162 lbs 721 Nm with RD radome |
| Twisting Moment (MT) | 2270 ft-lbs 3077 Nm | 2100 lbs 2847 Nm with RD radome |
| Operating Temperature Range | -40 to +60 C | |
| Max Pressure, PSIG, (if waveguide interface) | na | |

Regulatory Compliance

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|----------------------------|------------|
| FCC | undeclared |
| Industry Canada Compliance | undeclared |

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|----------------|------------|
| ETSI | undeclared |
| RoHS-compliant | Yes |

Shipping Information

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|--------------|--------------------|
| Package Type | Wood Crate |
| Gross Weight | 222 lbs 100.7 kg |

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|-----------------------|-------------------------------------|
| Dimensions, L x W x H | 77 x 20 x 80in 195 x 501 x 203 cm |
| Shipping Volume | 71.3 cu ft 2.02 cu m |

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

TECHNICAL DRAWINGS

