

HPC1-11

0.3 M | 1 FT HIGH PERFORMANCE COMMERCIAL LINE PARABOLIC ANTENNA, SINGLE-POLARIZED, 10.7-11.7GHZ

The HPC1-11 parabolic antenna offers a value engineered high performance parabolic antenna within a 30 cm footprint. Designed for global application, the HPC1-11 delivers a lightweight parabolic antenna with superior RF performance in the 11 GHz frequency band.

Product Features:

- Value priced for economical deployments
- Excellent RF performance
- Fully pre-assembled for “fastest time to tower”
- Compliant to ETSI and FCC standards
- Wind ratings - 125 mph / minimum operating and 155 mph / survival
- Waveguide and direct mount interface
- Three year warranty

[HPC1 Datasheet](#)



SPECIFICATIONS

General

Antenna Type	High Performance Commercial Line Parabolic Antenna	Standard RF Connector Type	PBR100
Size, nominal	1 ft 0.3 m	Standard RF Connector Suffix	RS (append suffix to model number)
Polarization	Single		

Electrical

Operating Frequency Band	10.7 - 11.7 GHz	Gain, Low Frequency	29.4 dBi
Half Power Beamwidth, Horizontal	5.5 degrees	Gain, Mid Frequency	29.6 dBi
Half Power Beamwidth, Vertical	5.5 degrees	Gain, High Frequency	30 dBi
Cross-Polarization Discrimination	30 dB	VSWR	na
Front to Back Ratio (F/B)	54 dB	Return Loss	-17.7 dB

Mechanical

Fine Azimuth Adjustment	+/- 15 degrees
Fine Elevation Adjustment	+/- 15 degrees
Mounting Pipe Diameter, Min	2 inch 5.1 cm
Mounting Pipe Diameter, Max	4.5 inch 114 cm
Net Weight	16.5 lbs 7.5 kg
Wind Velocity Operational	125 mph 201 km/h
Wind Velocity Survival Rating	155 mph 250 km/h

Mechanical Configuration	HPC1
Axial Force (FA)	101 lbs 451 N
Side Force (FS)	51 lbs 201 N
Twisting Moment (MT)	120 ft-lbs 163 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	5

Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	SRSP307.7A

ETSI	302217 R1 C3
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	16.5 lbs 7.5 kg

Dimensions, L x W x H	19.7 x 17.7 x 12.7in 50 x 45 x 32 cm
Shipping Volume	2.5 cu ft 0.07 cu m

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

TECHNICAL DRAWINGS

