



Horn Antenna Datasheet



Maritime



Aerospace



Ground



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Conical Horn Antenna

The Parker Meggitt WR-102 conical horn antenna operates from 7 to 11 GHz with a nominal gain of 10 dBiL. The antenna has a WR-102 waveguide input in accordance with a UG-1493/U flange. The antenna is available in either aluminum or titanium.

The antenna has a 3 dB E-Plane beamwidth of 50° at 7 GHz decreasing to 32° at 11 GHz and an H-Plane beamwidth of 45° at 7 GHz decreasing to 28° at 11 GHz. Peak gain is 11 dBiL at 7 GHz increasing to 14.5 dBiL at 11 GHz. Parker Meggitt specializes in custom design antennas. If any of the specifications listed don't meet your requirements, let us know and we can provide a unique solution for your application.



Key Features and Specifications:

Light Weight	High Efficiency
High Power Handling Capability	Aluminum or Titanium Material Available

Frequency	7 - 11 GHz
VSWR	< 1.5:1
Nominal Gain	13 dBiL
Polarization	Linear
RF Power ¹	0.48 MegaWatts
Weight (lbs.)	0.15 lb (Aluminum), 0.25 lb (Titanium)
Size (Inches)	2.4 x 2.1 (External Aperture Size)
Input	WR-102 Waveguide
Environment	MIL-STD-810

[1] Theoretical value at 1 atmosphere dry air at 20°C, no safety factor included