

Double Ridge Guide Horn Antenna

OBH-180500-15

The EC' Double Ridge Guide Horn Antenna is a broadband antenna that offers excellent performance over the frequency range of 18 GHz to 50 GHz. High gain, low VSWR, and input handling capability up to 10 watts make this horn antenna an excellent general use performer.

The antennas offer a very low SWR in their nominal frequency range and a very broad bandwidth. The gain increases with frequency up to approx. 16 dBi, depending on the horn's size and shape. The increasing gain with frequency helps to compensate cable losses.

The EC' Double Ridge Guide Horn Antenna manufacturing process changed from dip brazing to 100% machining. This allows for a more accurate and repeatable antenna performance that is critical at the higher frequencies.



Features

Broad Frequency Range of 18 GHz to 50 GHz

Linearly Polarized High Gain, Low VSWR

Individually Calibrated

Linear polarized with high polarization purity

Applications

FCC, MIL-STD, VDE and TEMPEST Testing

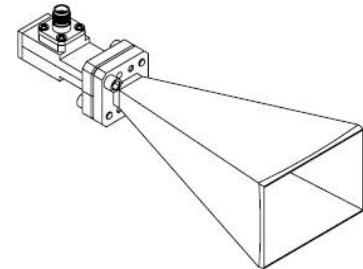
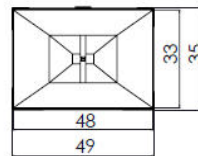
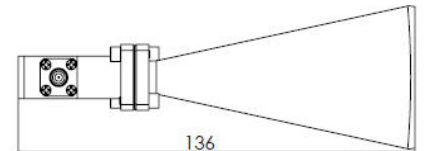
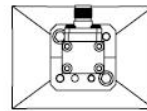
transmission and receiving applications

System Setup

Electrical Specifications

Frequency	(18-50) GHz
Gain	(13 - 17) dBi
Antenna Factor	40.3 - 41.1
Maximum Continuous Power	10 Watts
Max Radiated Field	100 V/M
Impedance	50 Ω
VSWR	1.2:1 (1.5:1 max)
Connector	2.40 mm

Product Dimensions



Test

