

Dual Polarized Antenna

ODPA-60180-40mm

The Ocean Microwave Dual Polarized Horn Antenna series cover the frequency range from 6 to 18GHz and is designed for the measurement of antennas in the MW range. The ODPA-60180-40mm antenna covers the C, X, and Ku bands

While intended as receive antennas, the ODPA-60180-40mm can be used as low power radiators, with a maximum continuous power handling capability of 50W.

Tow connectors input permit simultaneous measurements for both horizontal and vertical polarizations for linearly polarized electromagnetic waves. By using an additional 90-degree hybrid phase shifter, the antennas may be used to transmit or receive circularly polarized electromagnetic waves.

Tests have shown that the isolation level between the two test ports is better than 30dB for the ODPA-60180-40mm.



Applications

The ODPA-60180-40mm also covers most of the common radar and MW bands used in military applications. When an antenna is configured for receive mode, it can be used to measure far-field antenna patterns for the two orthogonal polarizations simultaneously.

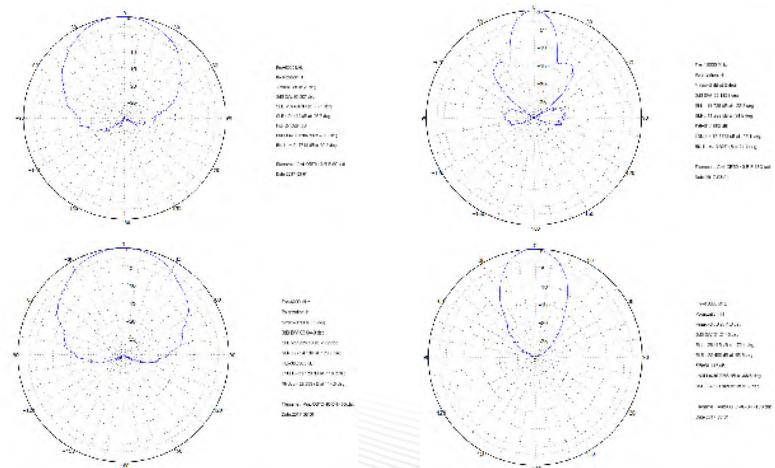
When an antenna is configured for transmit mode, it can be used to transmit signals from a base station simulator. Many intrinsic RF properties of wireless handsets can be measured at these two configurations. The user may also configure the same system to measure the RF interaction between a wireless handset and its operator.

Features

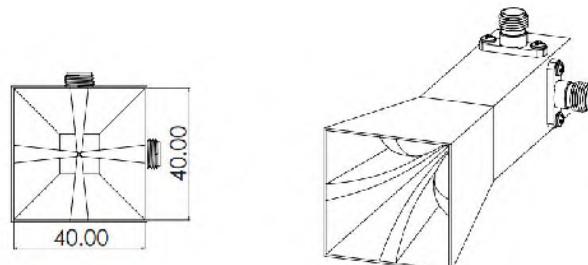
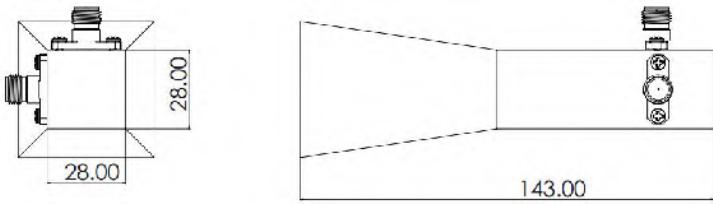
Isolation level between the two ports is better than 30dB for the ODPA-60180-40mm. Covers the C, X, and Ku bands

Electrical Specifications

MODEL	ODPA-60180-40mm
Frequency Range	(6 - 18) GHz
Max VSWR	< 2.0:1
Gain	(12-17) dBi
Maximum Continuous Power	50W
Impedance	50Ω
Connector	2 SMA Connectors
Cross Polarization Isolation	> 30dB



PRODUCT DIMENSIONS



GAIN

