

MODEL NUMBER:  
**QRHA18G-OB**  
**HORN ANTENNA 1-18GHZ - DUAL POLARIZED**



The QRHA18G-OB by The EMC Shop is an industrial/military strength directional antenna and can be used as a reference test antenna in the laboratory. The antenna is highly suited for wideband communication and can be ideally used in multiple applications like mobile communication, countermeasures, monitoring, jamming and military applications. The QRHA18G-OB is made with the military-grade aluminium to withstand even the harshest of environments.

The QRHA18G-OB provides maximum propagation directionally on all frequencies between 1GHz and 18GHz in two linear polarizations.

The broadband horn antenna QRHA18G-OB offers a low VSWR in its nominal frequency range and very broad bandwidth. The gain increases with frequency up to approx. 16 dBi, which helps to compensate for cable loss. The QRHA18G-OB horn is suitable for both transmission and receiving applications. The max. allowed Input Power is only limited by the female N-connector. The detailed manual of the calibrated test antennas includes Gain, Antenna Factor, VSWR and Directional Patterns.

The back structure mounting section allows easy adjustment for vertical, horizontal and 45 deg polarizations.

### TECHNICAL SPECIFICATIONS

Frequency Range	1 GHz to 18 GHz
Typical gain	7 to 16 dBi
VSWR	< 2.4 ( 1.5:1 in Average)
Polarization	Dual Linear
Maximum Power Handling	CW 110W, Pulse 180W
Feed-point Impedance	50 Ohms
Cross polarization	-35 dB in Average
Cross port isolation	-35 dB in Average
Connector	2 X SMA female
Size (L x H x W in cm)	approx. 23x 24 x 24
Weight	approx. 0.8 kg
Construction	Aluminium

### APPLICATION:

WiMAX, UWB, GSM, PCS, Wi-Fi, EMC, Automotive, Radio Monitoring, Lab. Testing, Jamming Government/Defense, Medical,...