STEATITE

2 - 18 GHz Dual LinearlyPolarised Wideband HornAntenna fitted with SMAConnectors and a Radome

Catalogue number QWH-DL-2-18-S-SG-R

Steatite reference QMS-00951

Contents Summary Typical Gain Typical Beamwidth / Patterns



QQD06-2 V7.3

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Typical Specification

Frequency	2 to 18 GHz
Connector Type	2 x SMA Female
Power Handling	Typically 20W CW
VSWR	Typically <2.5:1 (Maximum 3.0:1)
Isolation	Typically >25 dB
Gain	3.6 to 15.1 dBi
Antenna Factor	30.4 to 42.8 dB/m
3dB Beamwidth	15 to 135 degrees
10dB Beamwidth	36 to 261 degrees
Weight	660g nominal
Maximum Size	155mm base diameter and 141mm tall (excluding connector block)
Mounting	8 x Ø4.2mm eqi-spaced on a 142.5mm PCD
Construction	Aluminium baseplate and dielectric radome

Beamwidth and Pattern Cut Definition

For all antenna measurements the co-polarised port under test is aligned horizontally and defined as a Phi 0 (H-Plane) cut. The antenna is then rotated 90 degrees such that the co-polarised port under test is aligned vertically and defined as a Phi 90 (E-Plane) cut. This is true for both ports 1 and 2, i.e. when Port 1 is measured Phi 0 equates to the antenna being aligned horizontally and Phi 90 equates to the antenna being aligned horizontally and Phi 90 equates to the antenna being aligned vertically and when Port 2 is measured Phi 0 equates to the antenna being aligned vertically. Thus Port 1 and Port 2 results show almost identical performance for identically labelled plots.

Typical Antenna Gain

This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



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Typical Beamwidth



Typical Radiation Patterns

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18 GHz Phi 0





10 GHz Phi 90



18 GHz Phi 90

