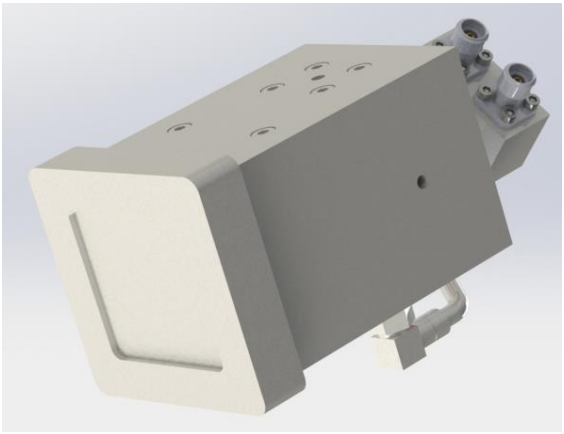
18 - 32 GHz Dual Circular Wideband Horn Antenna fitted with K type Connectors and a Radome

Catalogue number **QWH-DC-18-32-K-SG-R**

Steatite reference **QMS-01060**

Contents



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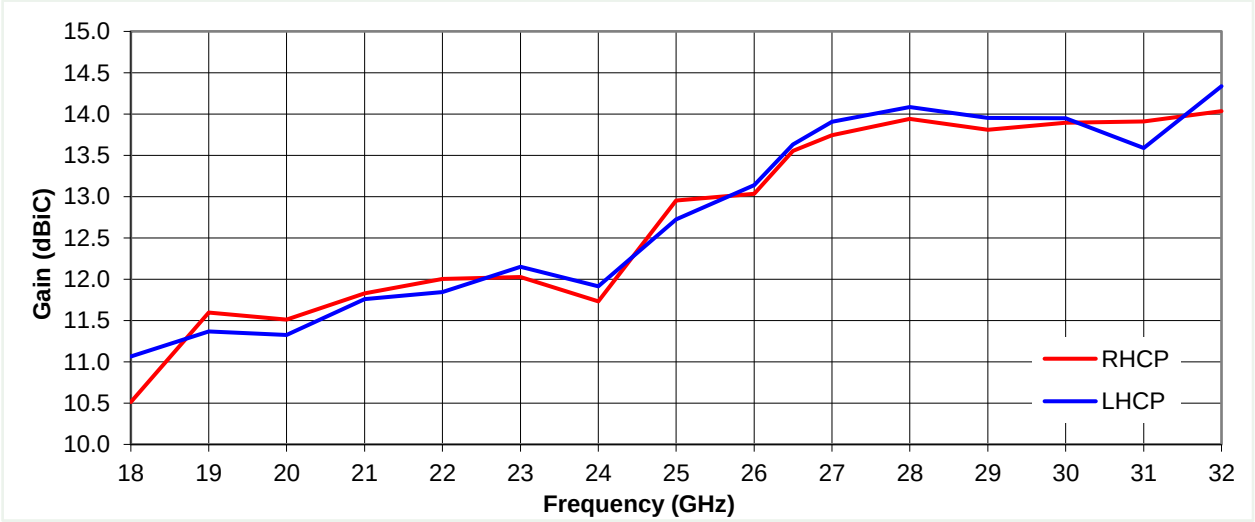
A SOLID STATE COMPANY
ISO 9001 : 2015

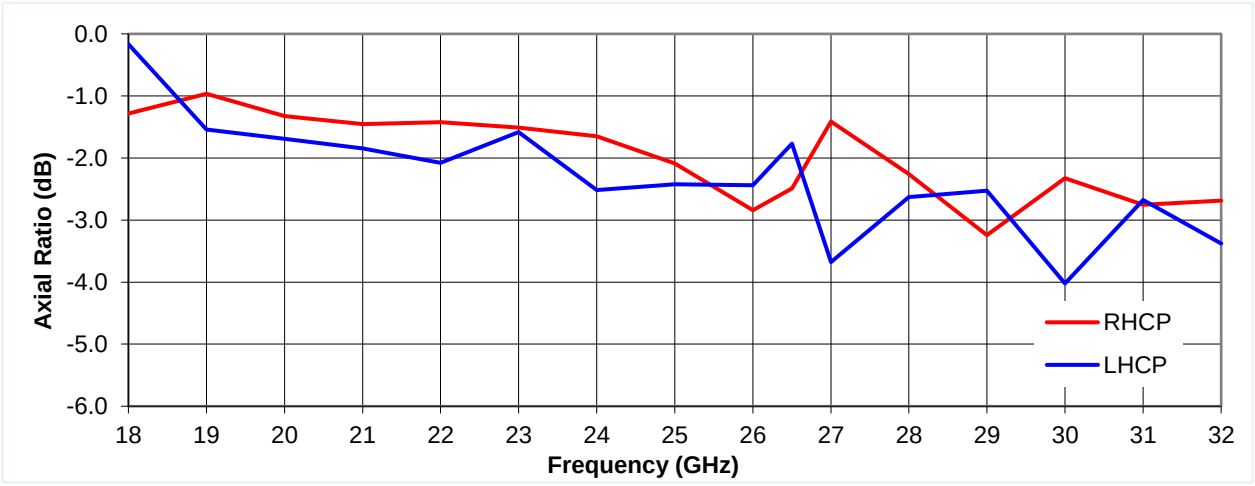
Expected Specification

Frequency	18 to 32 GHz
Connector Type	K type jack (2.9 mm)
Power Handling	20 Watt c.w.
VSWR	Typically < 2.0:1, (2.5:1 Max).
Gain	10.5 to 14.3 dBi
Axial Ratio	-4.02 to -0.17 dB
3dB Beamwidth	21 to 39 degrees
10dB Beamwidth	45 to 77 degrees
Weight	350g Nominal
Maximum Size	47 mm x 47 mm external aperture, 68 mm long (excluding hybrid coupler)
Mounting	4 x M4 Tapped Holes, 32 x 20 mm spacing
Construction	Aluminium and engineering plastics. Painted.

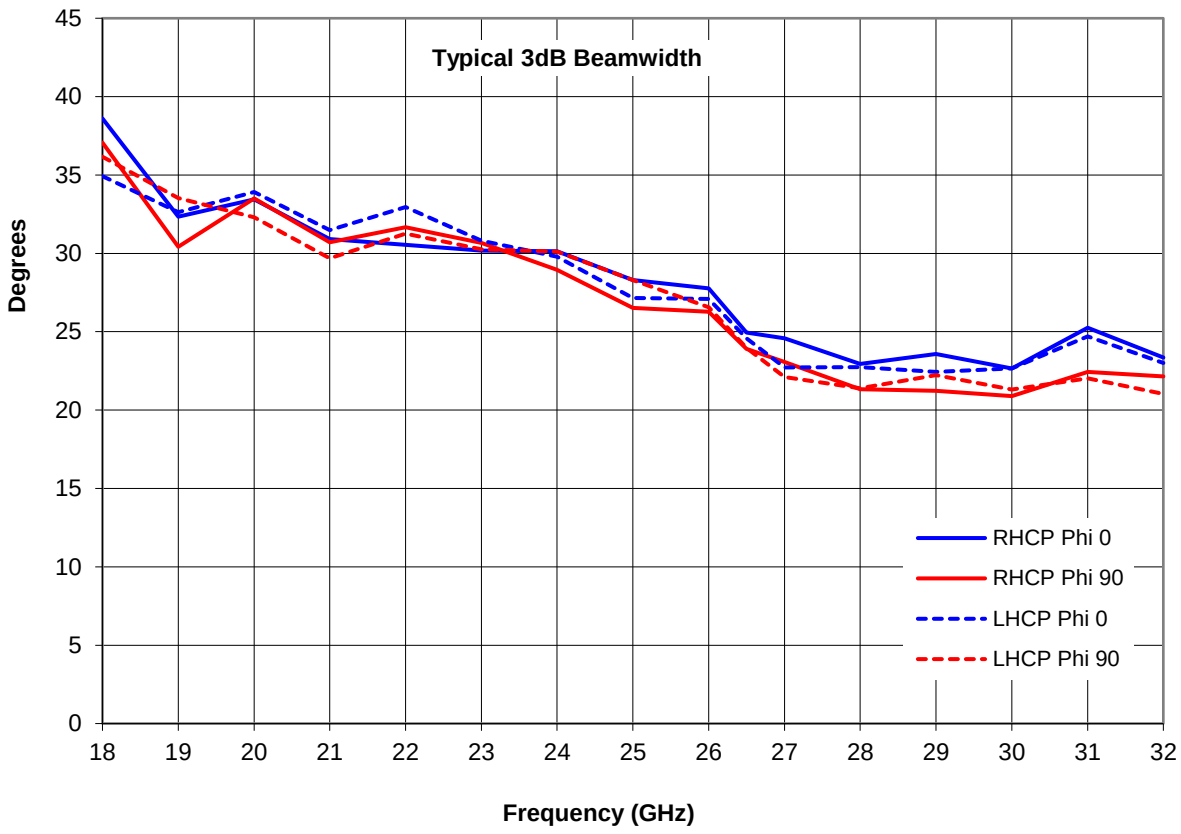
Typical Antenna Gain / Axial Ratio

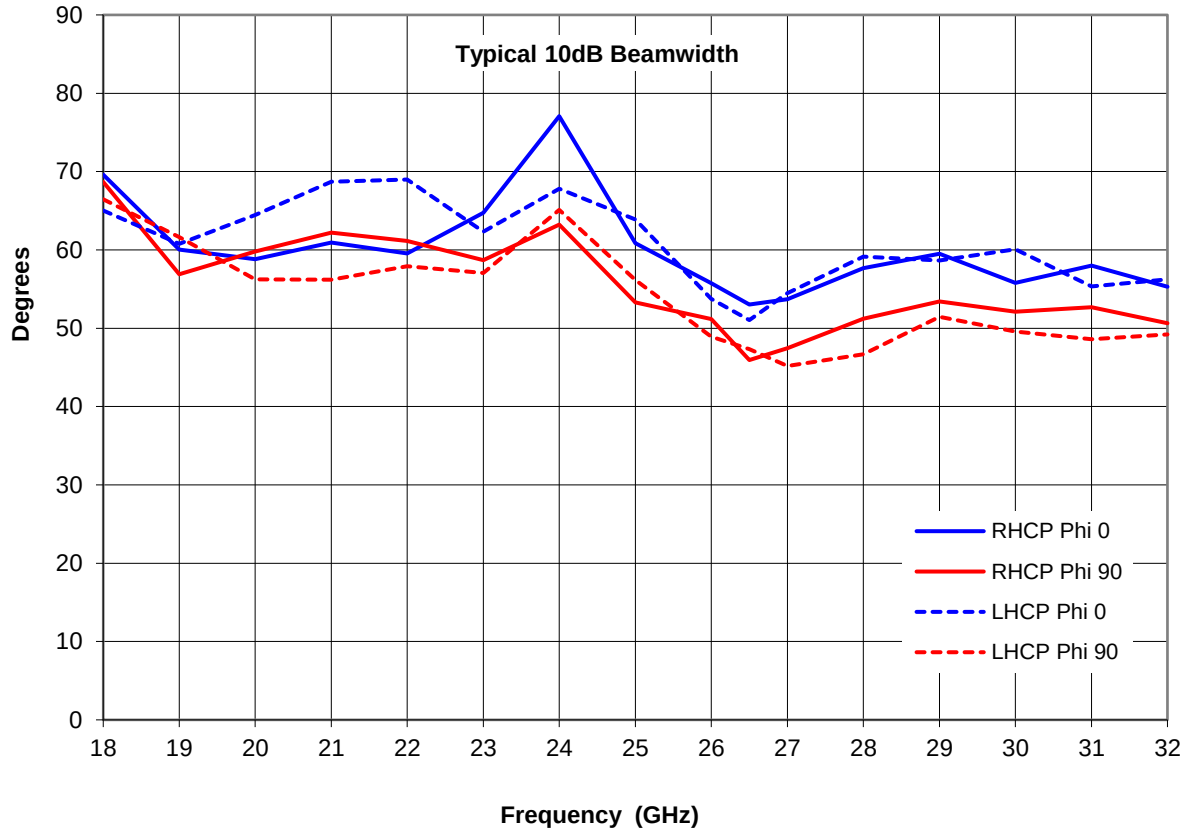
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.





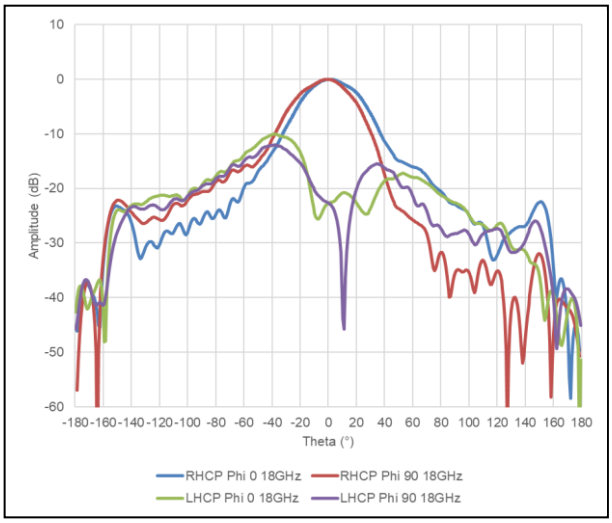
Typical Beamwidth



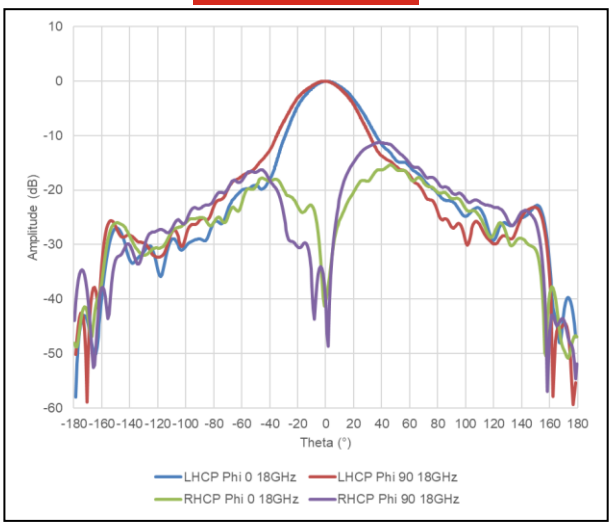


Typical Radiation Patterns

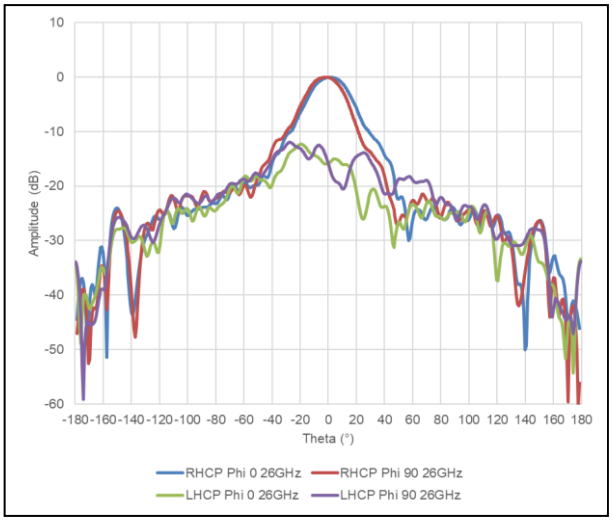
18 GHz (RHCP Port)



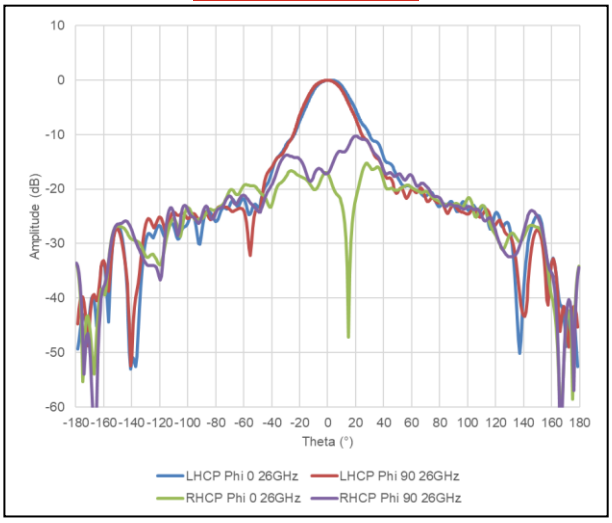
18 GHz (LHCP Port)



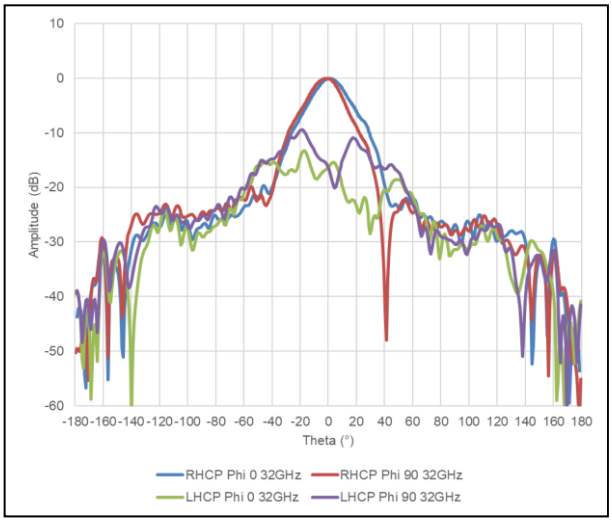
26 GHz (RHCP Port)



26 GHz (LHCP Port)



32 GHz (RHCP Port)



32 GHz (LHCP Port)