23 - 42 GHz Vertically Polarised Omnidirectional Antenna fitted with a K type Connector and Radome

Catalogue number **QOM-SL-23-42-K-R**

Steatite reference **QMS-01018**

Contents

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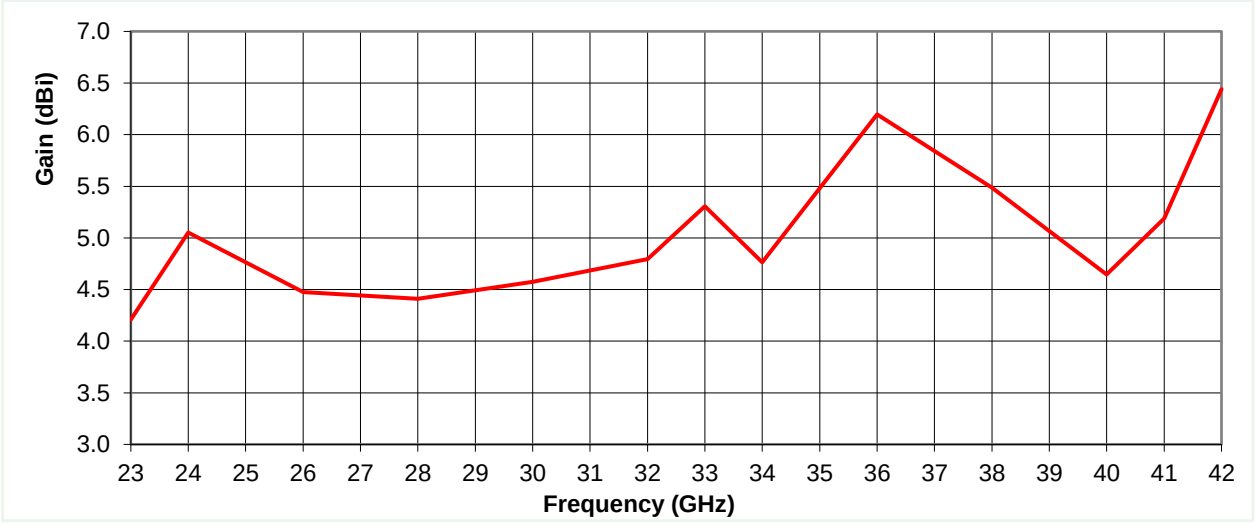
A SOLID STATE COMPANY
ISO 9001 : 2015

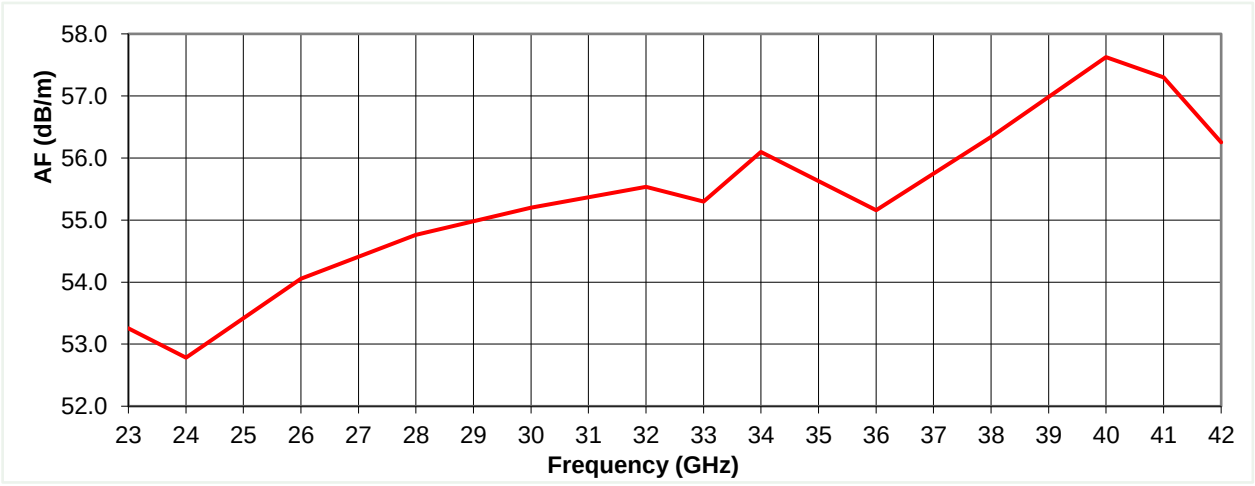
Typical Specification

Frequency	23 to 42.5 GHz
Connector Type	K type (2.92 mm) jack
Power Handling	10 Watt c.w.
VSWR	≤ 2.0:1 (23.5 - 42.5 GHz)
Gain	4.2 to 6.4 dBi
Antenna Factor	52.8 to 57.6 dB/m
3dB Beamwidth	8 to 43 degrees
10dB Beamwidth	13 to 106 degrees
Weight	30 g nominal
Maximum Size	Ø46mm x 28.4mm total length including connector.
Mounting	3 holes for M3 CSK PEEK Screws equispaced on Ø36mm PCD See ICD for more information.
Construction	Aluminium with Delrin radome, stainless steel connector and PEEK Fastners

Typical Antenna Gain / Factor

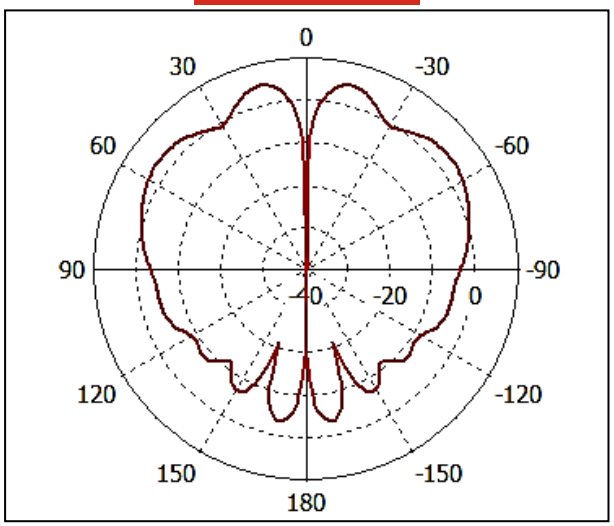
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



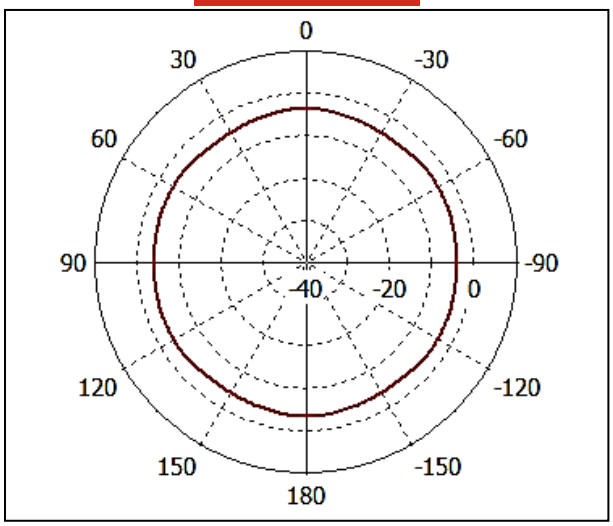


Typical Radiation Patterns

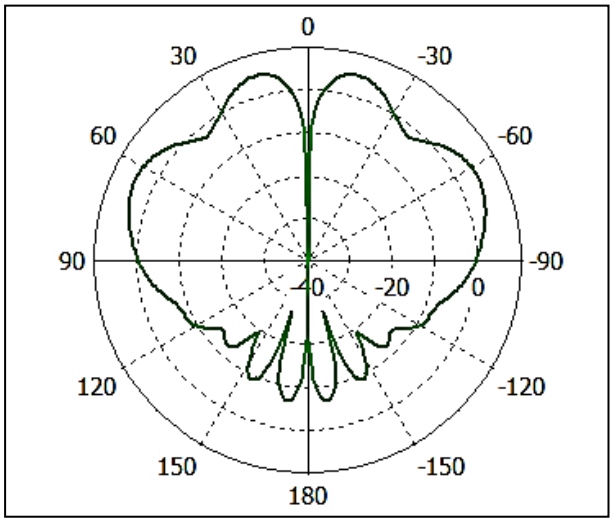
23 GHz Elevation



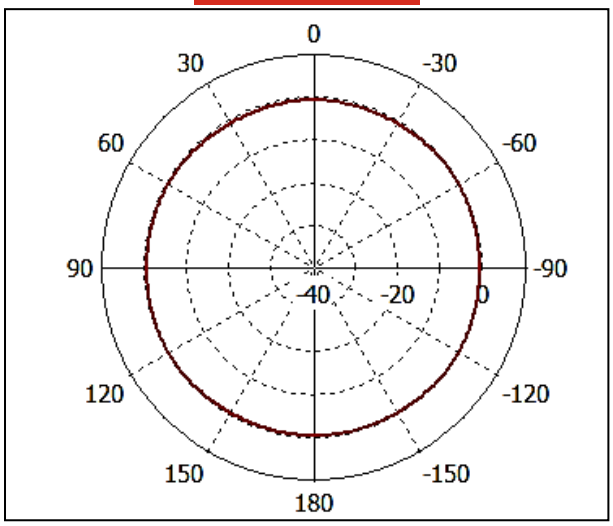
23 GHz Azimuth



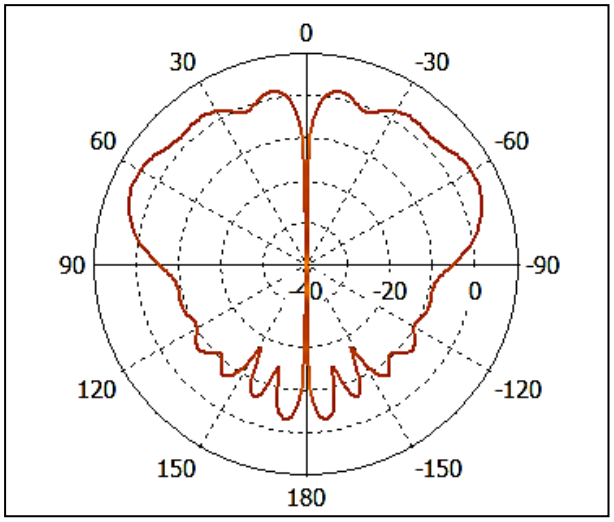
26 GHz Elevation



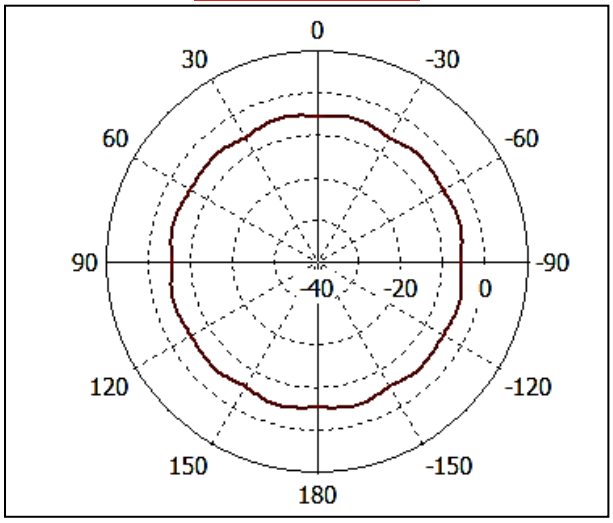
26 GHz Azimuth



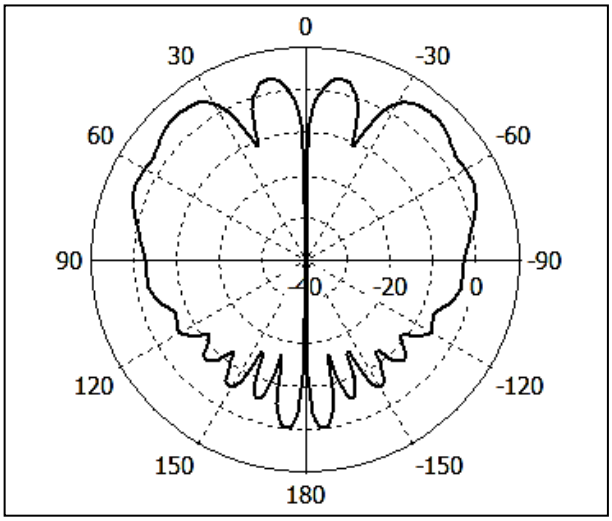
30 GHz Elevation



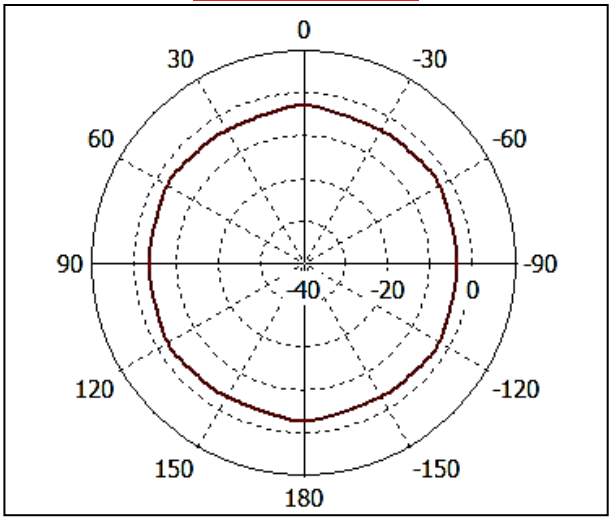
30 GHz Azimuth



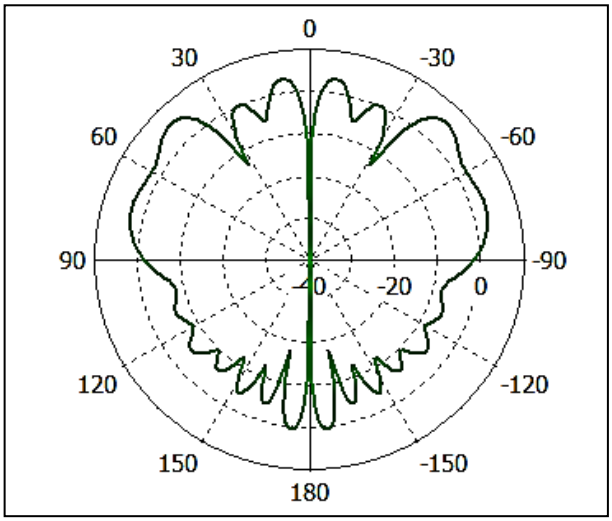
34 GHz Elevation



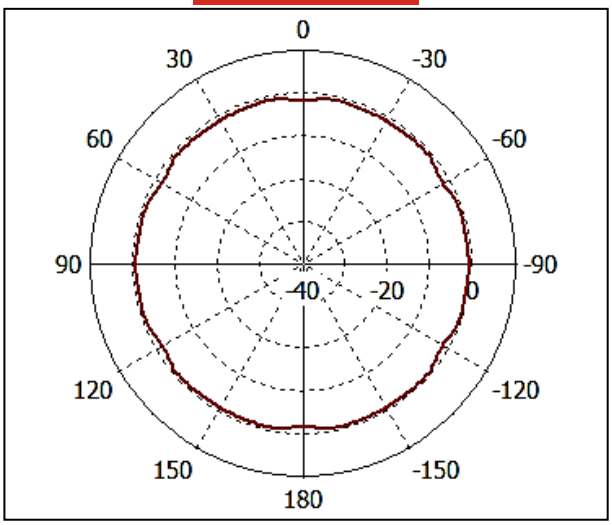
34 GHz Azimuth



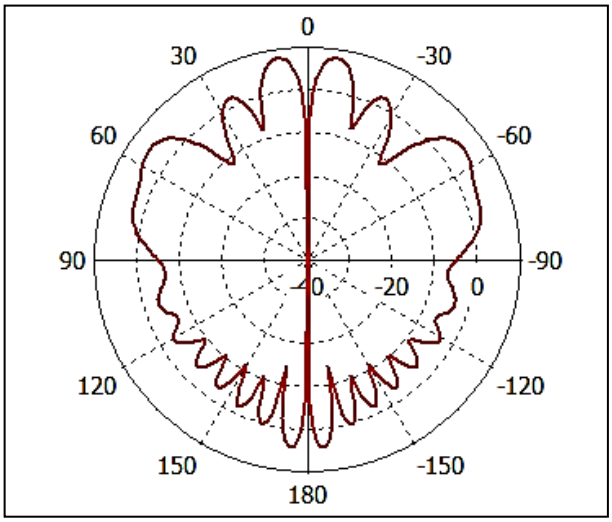
38 GHz Elevation



38 GHz Azimuth



42 GHz Elevation



42 GHz Azimuth