1 - 1.6 GHz Four Horn Focussing 20 dBi HiRF Antenna Array fitted with a 7:16 DIN Connector

Catalogue number **QPA-SL-1-1.6-A-20**

Q-par reference **QMS-00719**

Contents

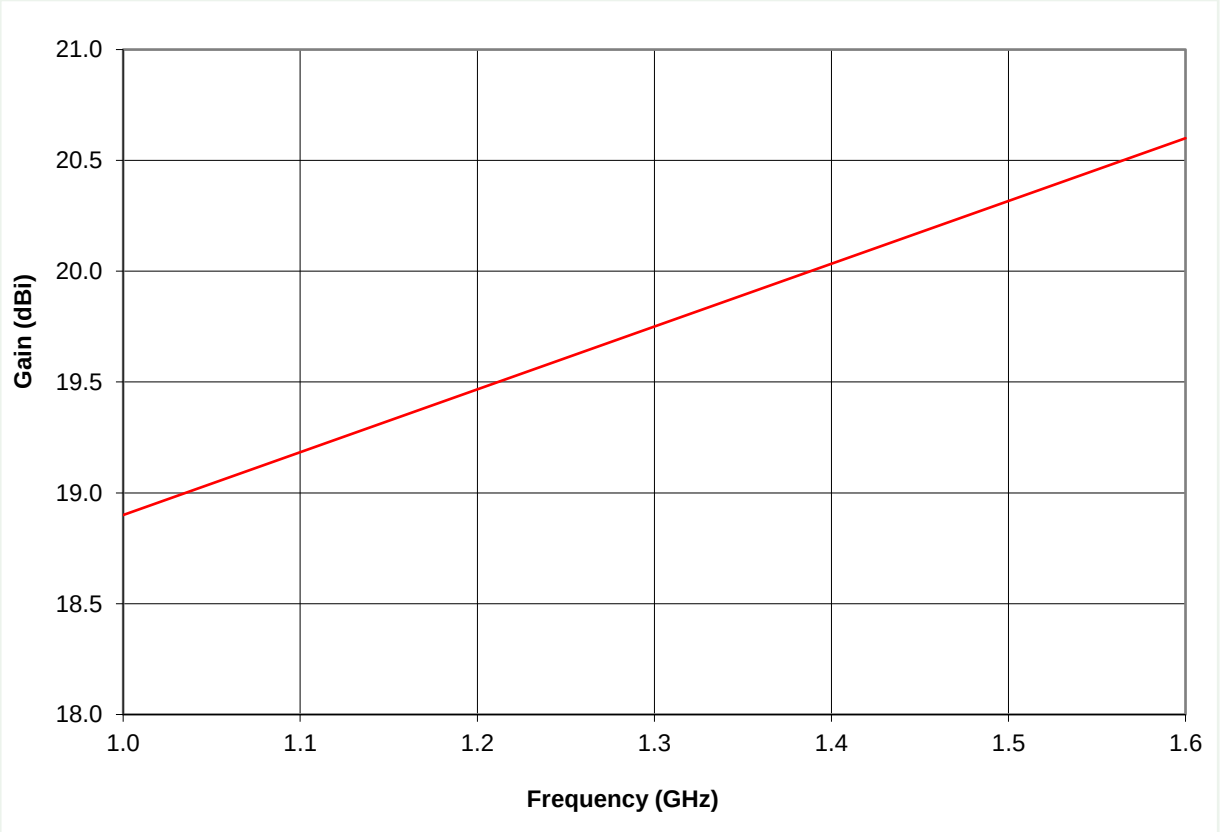
Typical photograph with mounting trolley. Finish according to customer

Typical Specification

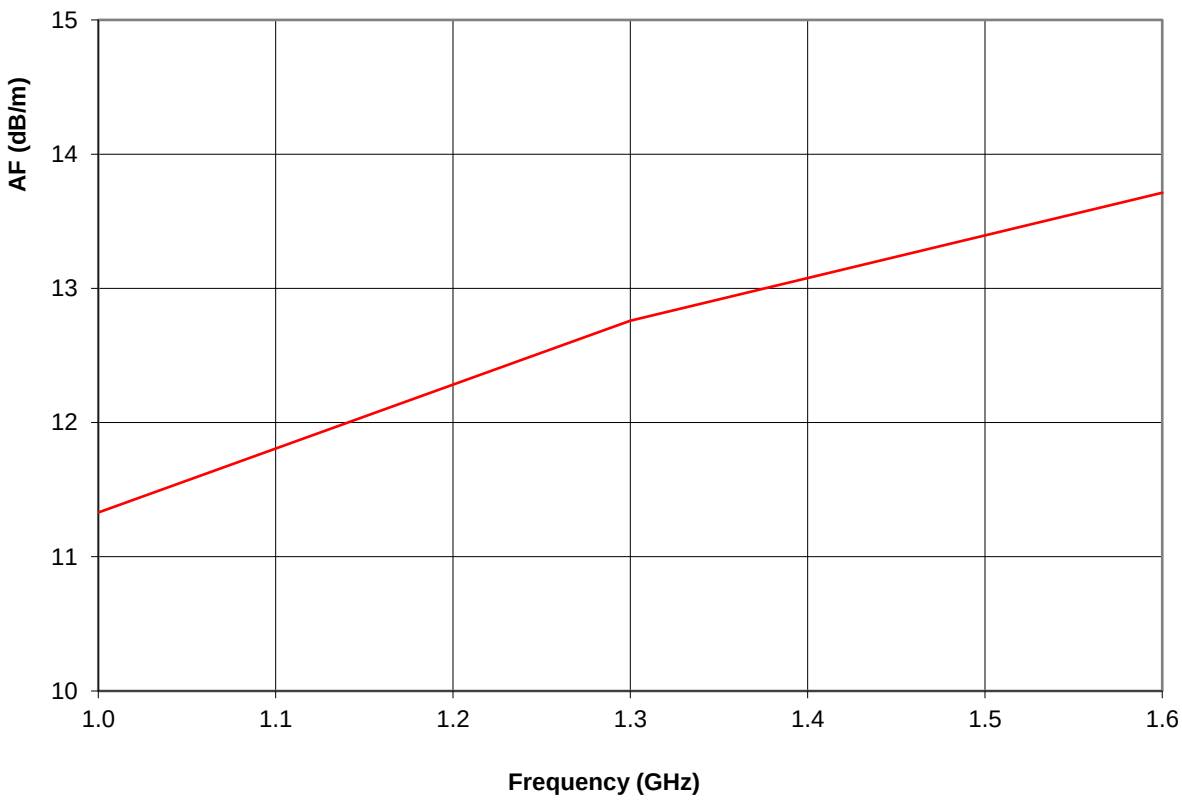
Frequency	1 to 1.6 GHz
Connector Type	7:16 DIN
Power Handling	2 kW c.w. 13 kW peak at 15 % duty cycle maximum.
VSWR	Typically < 1.5:1. Maximum 2:1
Gain	18.9 to 20.6 dBi at 1 metre
Antenna Factor	11.3 to 13.7 dB/m at 1 metre
3dB Beamwidth	10 to 15 degrees
Weight	60 kg nominal
Maximum Size	1250 x 1250 x 900 mm nominal
Mounting	Requires specialised trolley. Refer to QMS-00719_ICD.
Construction	Stainless steel, alumnium.

Typical Antenna Gain at 1 metre

This is calculated by reference to standard gain horn antennas with an estimated error of +/- 0.8dB.
Horn squint setting nominal 12 degrees in horizontal and vertical planes.
Larger squint angles will increase the gain at the expense of beamwidth.
Gain and antenna factor are measured using a small, low gain probe such as a short dipole
One metre distance is with respect to the array centre, as measured from the end of the horns.



Typical Antenna factor at 1 metre



Typical 3dB beamwidth at 1 metre