1.5 - 2.6 GHz Four Horn Focussing 21 dBi HiRF Antenna Array fitted with a 7:16 DIN Connector

Catalogue number **QPA-SL-1.5-2.6-A-21**

Q-par reference **QMS-00722**

Contents

Typical photograph with mounting trolley. Finish according to customer specifications.

09/14

KG 08/12/2014 7236

STEATITE Q-PAR ANTENNAS
BARONS CROSS LABORATORIES
LEOMINSTER
HEREFORDSHIRE
HR6 8RS
UNITED KINGDOM

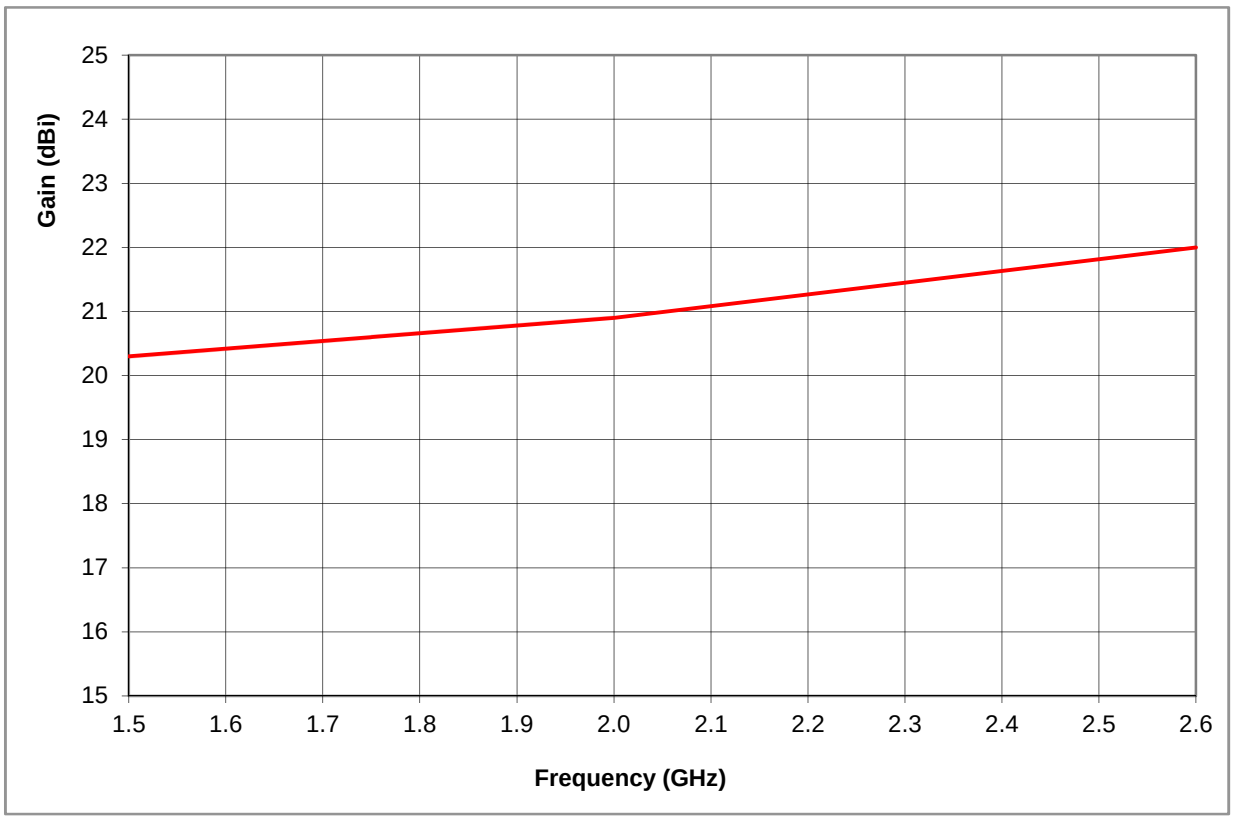
TEL: +44 (0)1568 612138
FAX: +44 (0)1568 616373
EMAIL: sales@q-par.com

Typical Specification

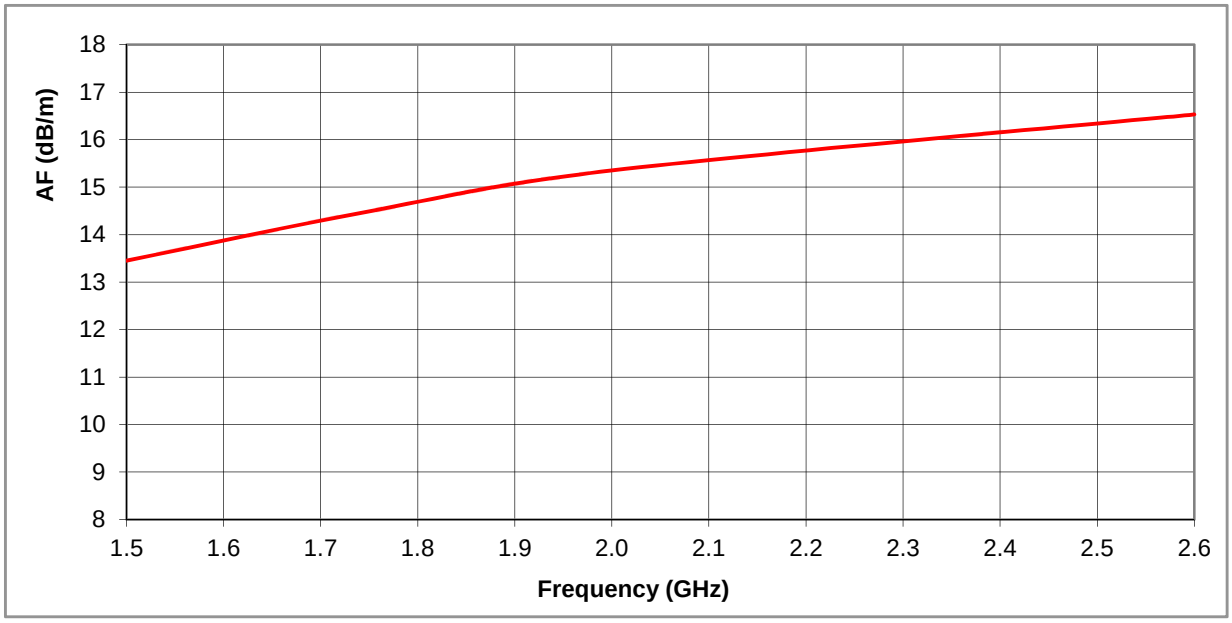
Frequency	1.5 to 2.6 GHz
Connector Type	7:16 DIN
Power Handling	1.4 kW c.w. 13 kW peak at 10 % duty cycle maximum.
VSWR	Typically < 1.5 : 1. Maximum 2 : 1.
Gain at 1 m	20.3 to 22 dBi
Antenna Factor	13.5 to 14.5 dB/m
3dB Beamwidth	8 to 14 degrees
Focus adjustment	Infinity to 650 mm.
Weight	54 kg nominal
Maximum Size	950 x 950 x 900 mm nominal
Mounting	Requires specialised trolley. Refer to QMS-00722_ICD.
Construction	Stainless steel, alumnium.

Antenna Gain at One 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, 103 on the scale.
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 array centre, as measured from the end of the horns.



Antenna Factor at One Metre



Frequency	Gain at 1 m	Antenna factor at 1 m
GHz	dBi	dB/m
1.5	20.4	13.45
2.0	20.9	15.35
2.6	22.0	16.53

3dB Beamwidth at One Metre

Horn squint setting nominal 12 degrees in horizontal and vertical planes.