

## 0.4 - 1 GHz Four Horn HiRF Antenna Array fitted with a 7:16 DIN Connector

Catalogue number **QPA-SL-0.4-1-A-SG**

Q-par reference **QMS-00694**

Contents **Summary**

**Typical Gain / Antenna Factor at 1 metre**  
**Typical Beamwidth at 1 metre**  
**VSWR**



Setup for Horizontal polarisation

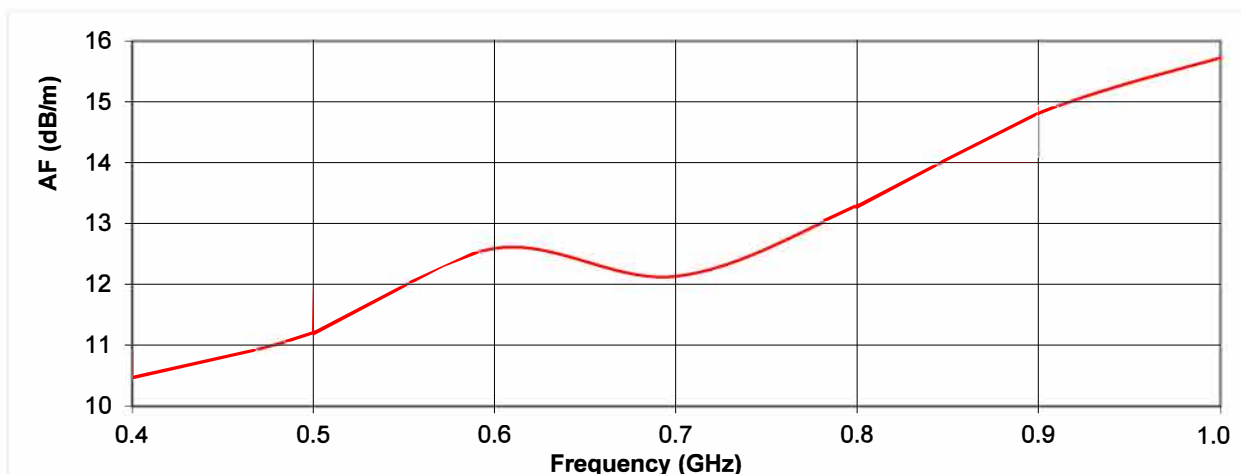
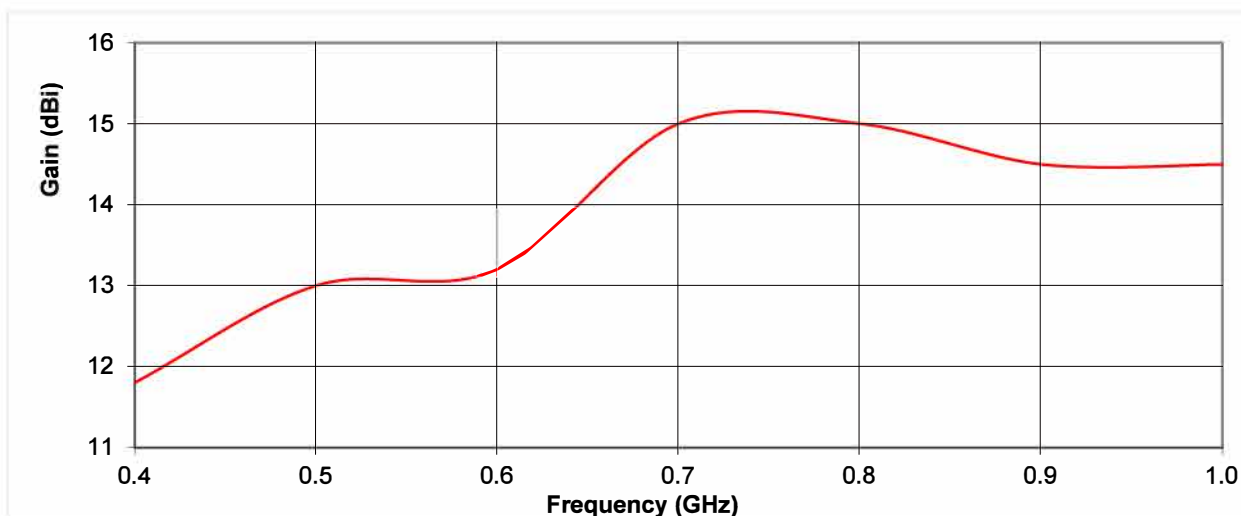
Typical photograph. Finish according to customer specifications.

## Typical Specification

<b>Frequency</b>	0.4 to 1 GHz
<b>Connector Type</b>	7:16 DIN
<b>Power Handling</b>	13 kW peak. 2 kW c.w.
<b>VSWR</b>	Typical 1.7:1. 2.3:1 maximum
<b>Gain</b>	11.8 to 15 dBi at 1 metre
<b>Antenna Factor</b>	10.5 to 15.7 dB/m at 1 metre
<b>3dB Beamwidth</b>	16 to 39 degrees
<b>Weight</b>	100 kg nominal
<b>Maximum Size</b>	1537 x 1327 x 916 mm. Refer to QMS-00694_ICD.
<b>Mounting</b>	Free standing.
<b>Construction</b>	Stainless steel and welded aluminium.

## Typical Antenna Gain / Factor - at 1 metre

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.



Sales Partner

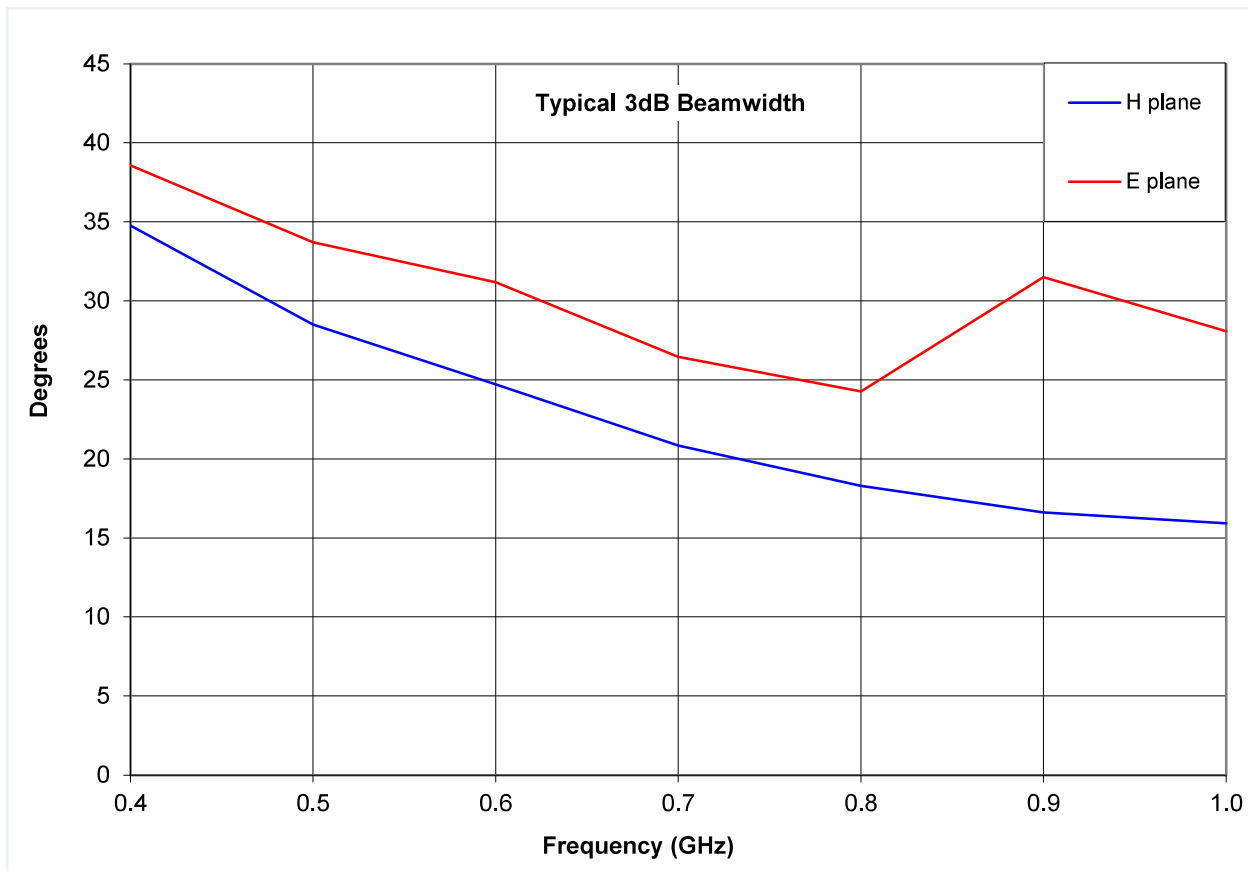


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absolute-emc.com  
Phone: 703-774-7505  
info@absolute-emc.com

## Typical 3 dB beamwidth at 1 metre

Estimated tolerance  $\pm 2$  degrees



## Simulated 3dB spot size at 1m

Frequency GHz	E plane mm	H plane mm
0.4	700	626
0.5	606	508
0.6	558	438
0.7	470	368
0.8	430	322
0.9	564	292
1.0	500	280

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