Q-par Angus Ltd

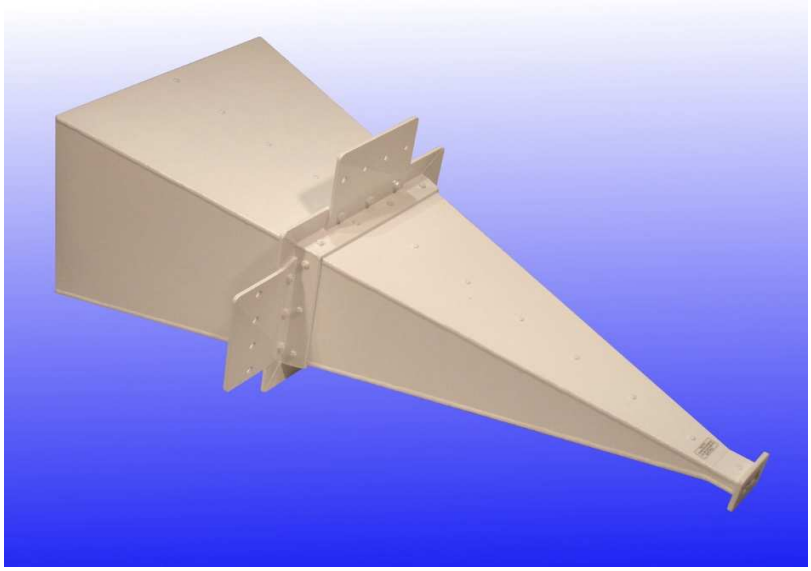
IDEAS ENGINEERED

Broadband Horn

4 to 8 GHz

WRD350

P/N: **WBH4-8F20**
S/N: **7377**
Q-par ref: **D1703**
Date: **13-Apr-10**
Contents: **Summary**
Antenna Gain
Beamwidth
VSWR



Test Report

Barons Cross Laboratories, Leominster, Herefordshire, HR6 8RS, UK
Tel +44 (0) 1568 612138 Fax +44 (0) 1568 616373
E-mail sales@q-par.com Web www.q-par.com

This report covers full electrical testing and has been produced for

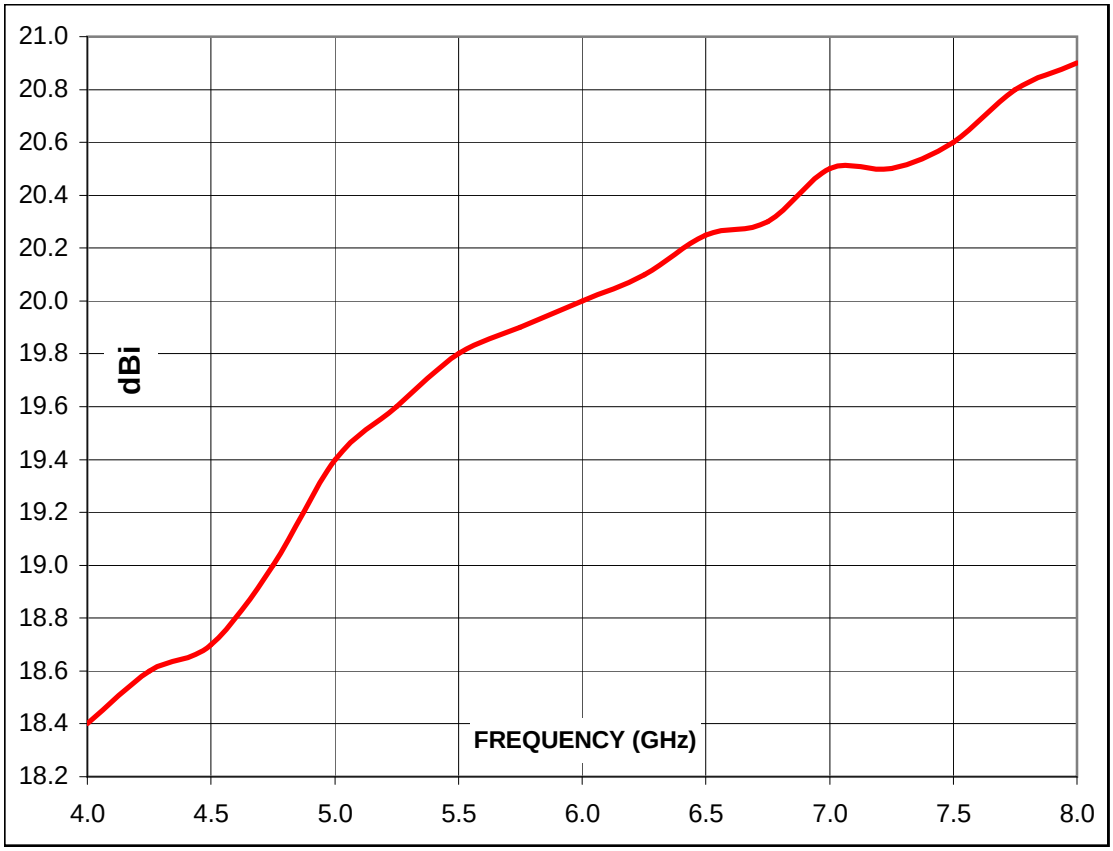
-

Summary

Frequency	4 to 8 GHz
Connector type	WRD 350 Flange
VSWR	< 1.7:1 Measured with transition *(Typically <1.3:1 without transition)*
Gain	18.4 to 20.9 dBi
Power handling	2 kW c.w., 20 kW peak
Weight	7.6 kg
Size- max.	367 mm x 285 mm x 890 mm long
Mounting	2 mounting plates, with 4 x 10 mm diameter holes, 40 mm centres

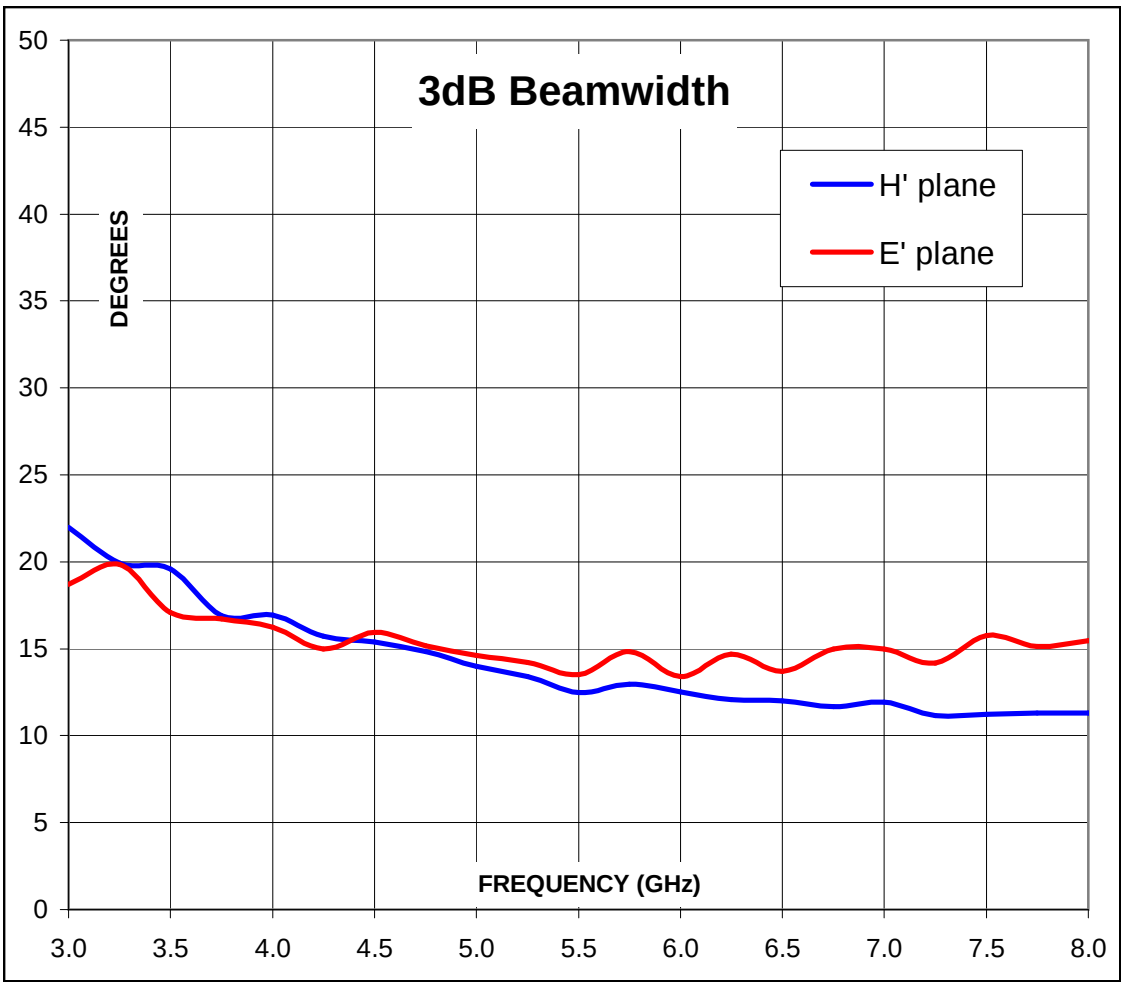
Typical Antenna Gain

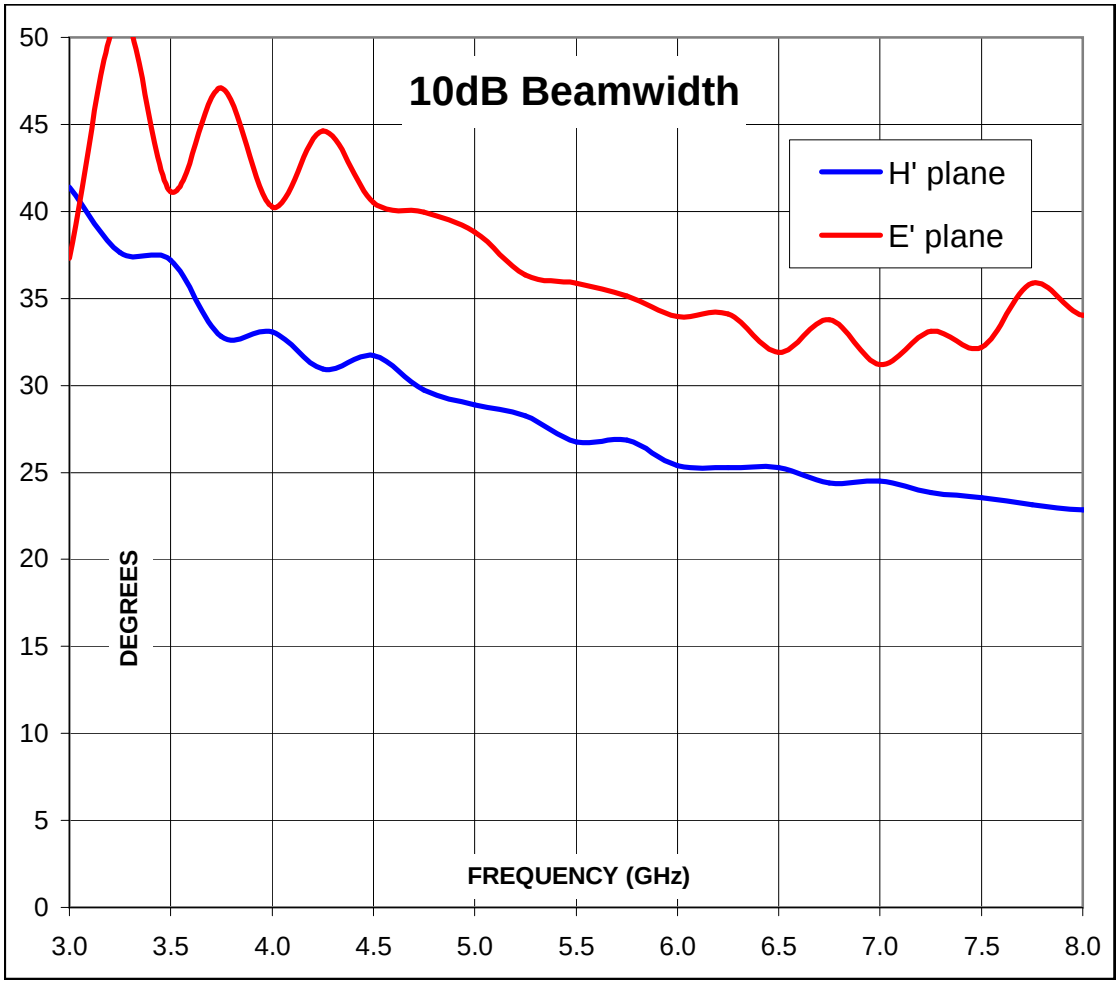
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



The recommended far field range for this antenna is > 7.8 Metres

Frequency GHz	Gain dBi	Antenna Factor dB/m
4.0	18.4	23.9
5.0	19.4	24.8
6.0	20.0	25.8
7.0	20.5	26.6
8.0	20.9	27.4


3dB Beamwidth
H' plane
E' plane
DEGREES
FREQUENCY (GHz)
50
45
40
35
30
25
20
15
10
5
0
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0


10dB Beamwidth
H' plane
E' plane
DEGREES
FREQUENCY (GHz)
50
45
40
35
30
25
20
15
10
5
0
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0