Q-par Angus Ltd

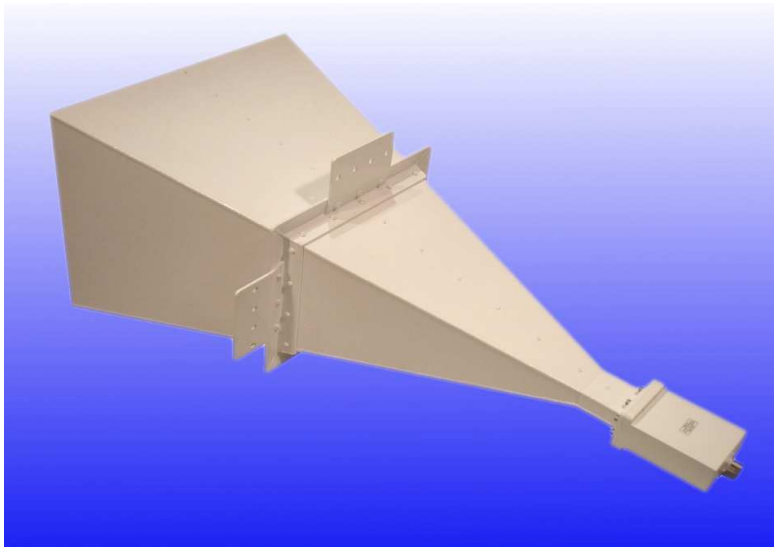
IDEAS ENGINEERED

Broadband Horn

2 to 4 GHz

WRD200

P/N: **WBH2-4C17**
S/N: **7376**
Q-par ref: **D1703**
Date: **01-Sep-09**
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

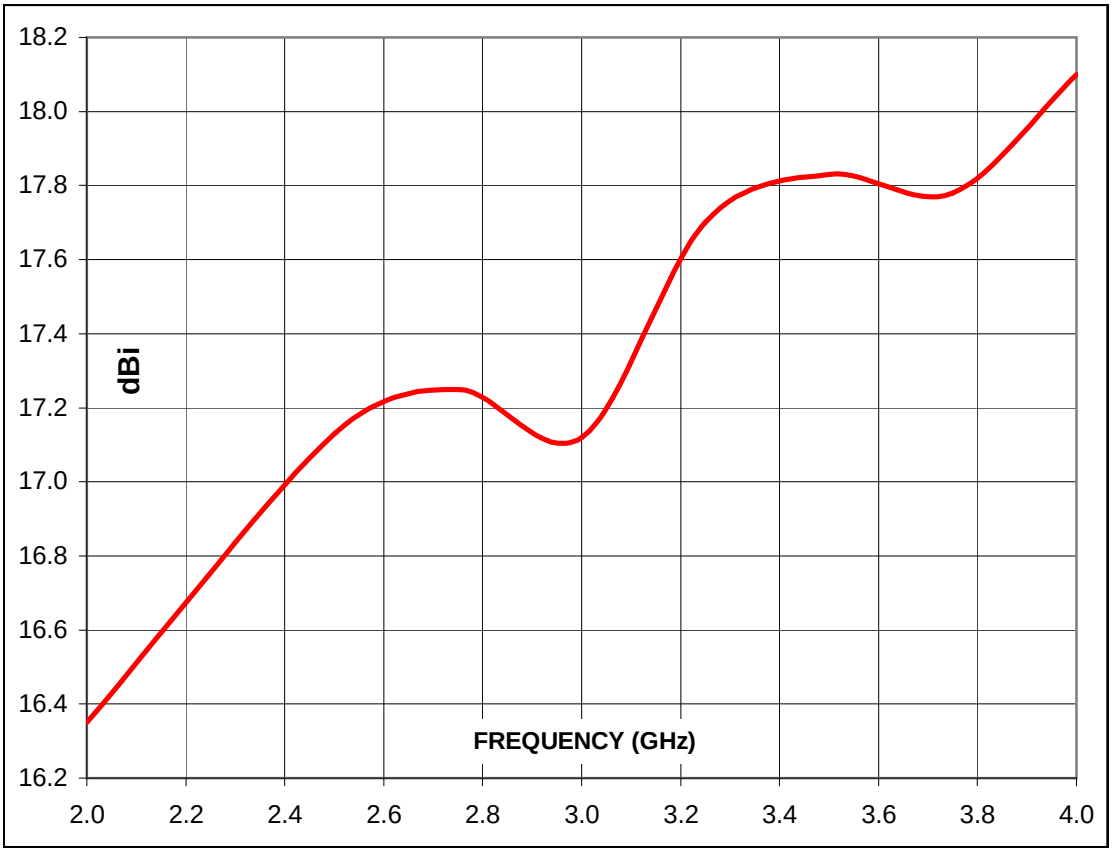
-

Summary

Frequency	2 to 4 GHz
Connector type	WRD200 Transition to SC type precision jack
VSWR	< 1.6:1
Gain	16.4 to 18.1 dBi
Power handling	10 kW peak, 750 W mean
Weight	14 kg + 1.76 kg transition = 15.76 kg
Size- max.	555 mm x 426 mm x 986 mm long *(1151 mm with transition)*
Mounting	2 mounting plates, with 4 x 10 mm diameter holes, 40 mm centres

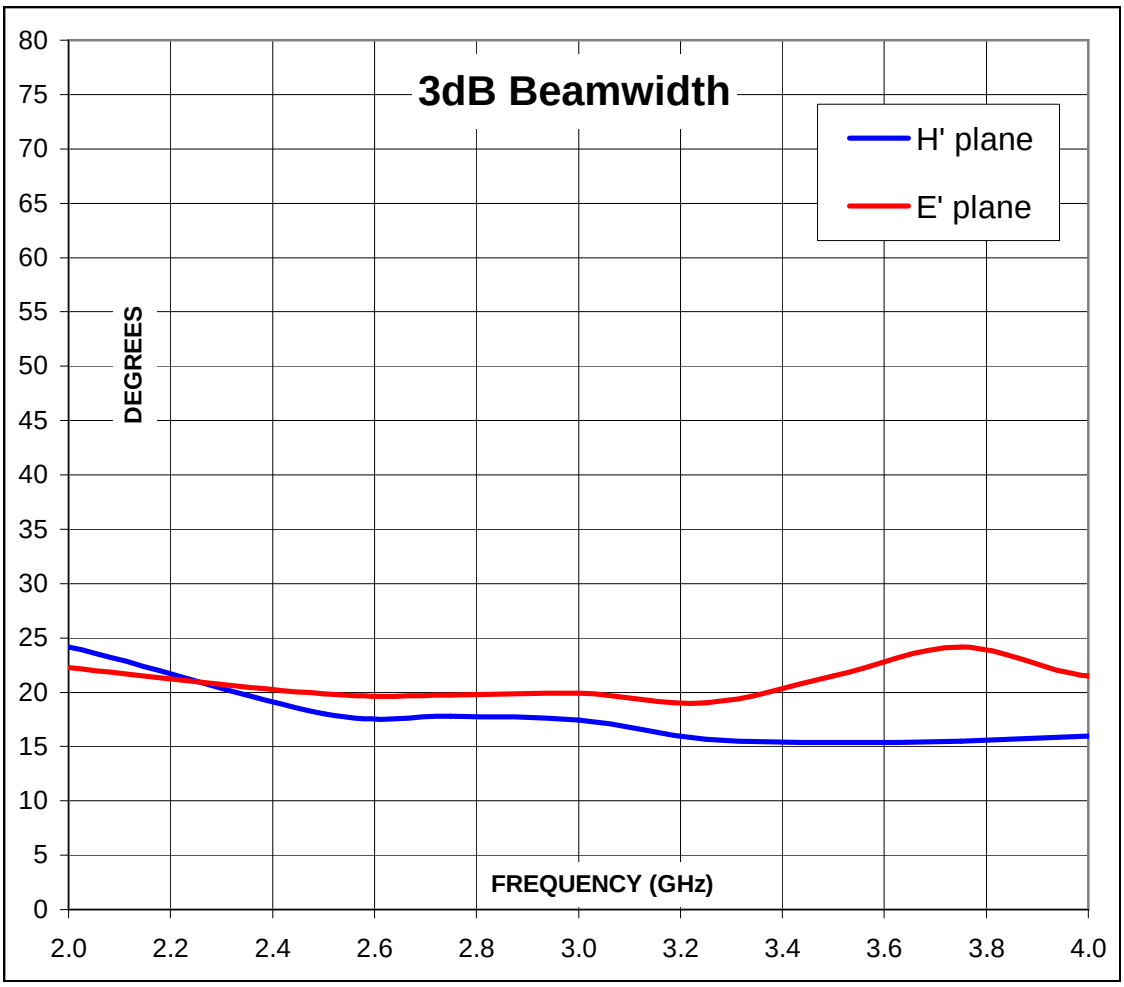
Typical Antenna Gain

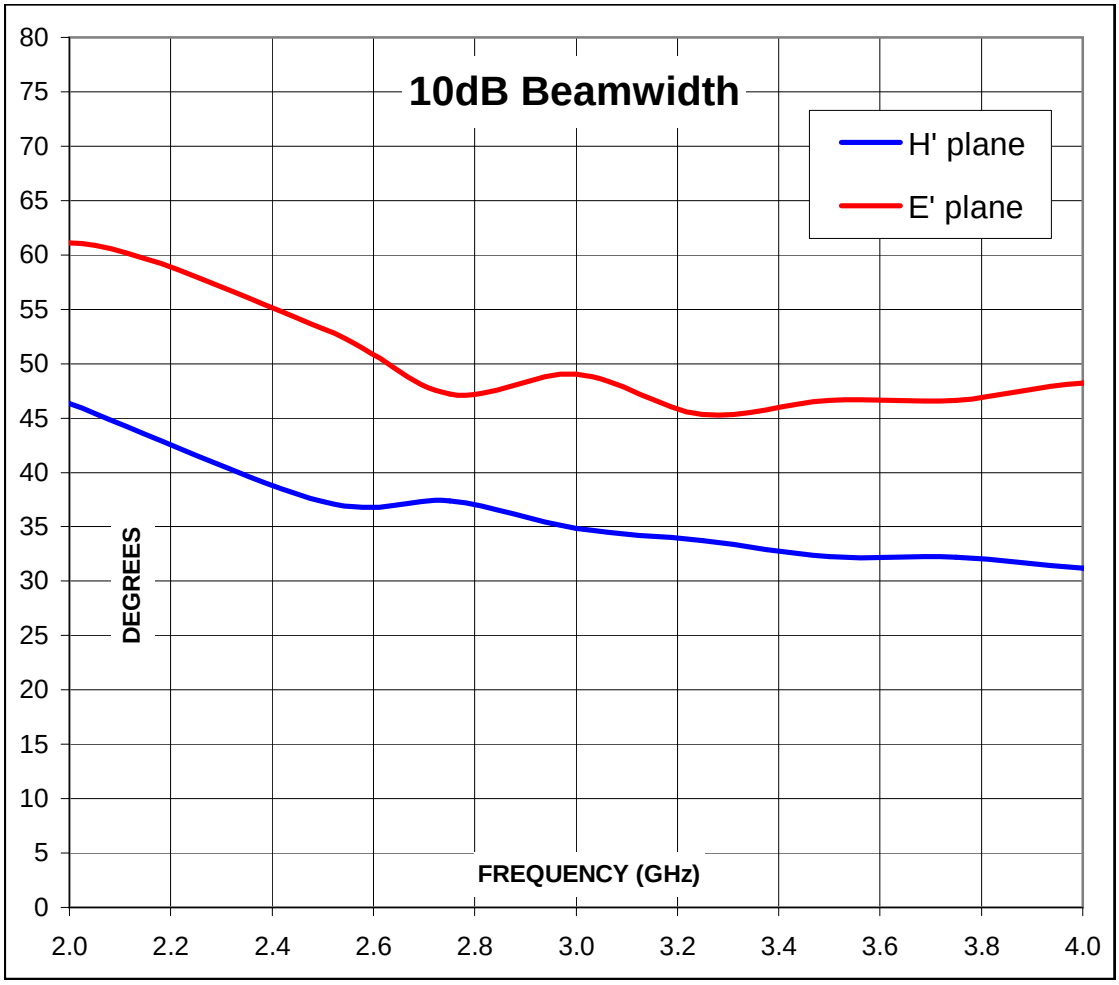
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



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

Frequency GHz	Gain dBi	Antenna Factor dB/m
2.0	16.4	19.9
2.5	17.1	21.1
3.0	17.1	22.7
3.5	17.8	23.3
4.0	18.1	24.2


3dB Beamwidth
H' plane
E' plane
DEGREES
FREQUENCY (GHz)
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0


10dB Beamwidth
H' plane
E' plane
DEGREES
FREQUENCY (GHz)
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0