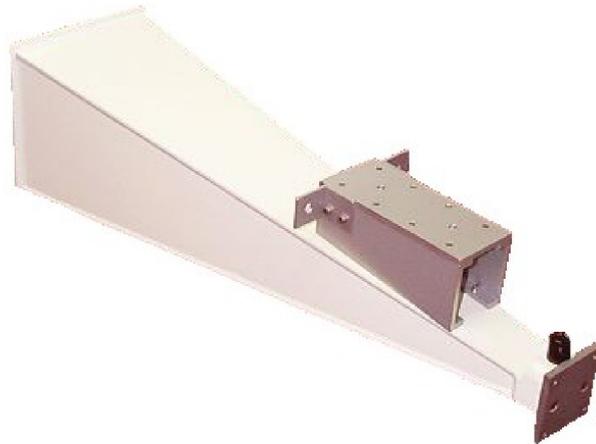


IDEAS ENGINEERED

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## 2 - 18 GHz High Gain Horn Antenna

Model Number WBH2-18HN/S

This high gain high performance ridged waveguide horn, Model Number WBH2-18HN/S is ideal for EMI/RFI testing, EMC measurements, wide band spectrum surveillance or materials evaluation etc. The horn covers frequencies used for PCN, PCS, GSM, GPS, direct to home satellite broadcasting, and many others. It is especially useful for receiving very low signals or transmitting moderate power levels. The horn can be used where a parabolic reflector antenna may previously have been used to increase the gain, or where it is not practical to install a wide band standard reflector antenna. The horn is cheaper than an equivalent feed and reflector antenna assembly. Both Type N and SMA versions are available.

Special techniques have been incorporated to prevent higher order waveguide modes. The construction is a metal/glass composite. The horn comes with a specially designed weatherproof radome which provides good protection against the elements but has very little loss across the frequency band.

A mounting bracket similar to shown is provided at no extra cost.

*Designed and Manufactured in England to the highest standards*

Q-par Angus Ltd  
Barons Cross Laboratories  
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Herefordshire  
HR6 8RS UK



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I D E A S E N G I N E E R E D

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## SPECIFICATION

Model Number WBH2-18HN/S

<b>Frequency</b>	2 - 18 GHz
<b>Nominal Gain</b>	10 - 22 dBi
<b>Nominal Beamwidth</b>	60 - 11 degrees
<b>VSWR</b>	< 2.5:1 (Typically < 2.0:1)
<b>Cross Polar</b>	< -17 dB
<b>Power Handling</b>	SMA 50 Watts cw, Type N 80 Watts cw
<b>Construction</b>	Metal/Glass-Resin composite
<b>Dimensions</b>	622 x 165 x 165 mm approx.
<b>Connector</b>	SMA or Type N (others available)
<b>Weight</b>	2.7 kg
<b>Temperature</b>	-40 C - +70 C

## GAIN TABLE

Frequency (GHz)	Gain (dBi)
2	10
4	15
6	17
8	18
10	19
12	20
14	20
16	20
18	22

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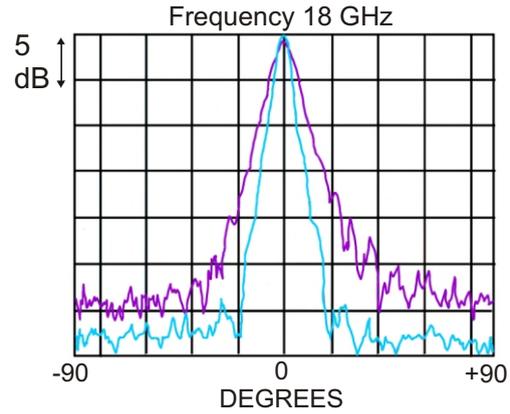
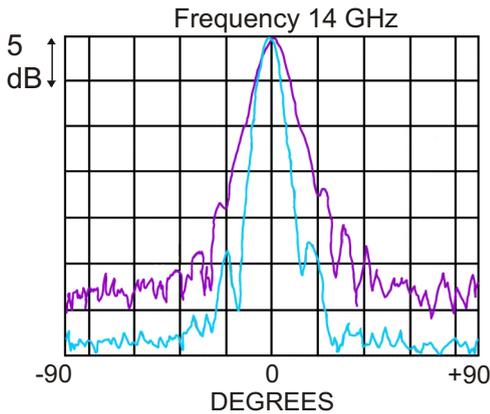
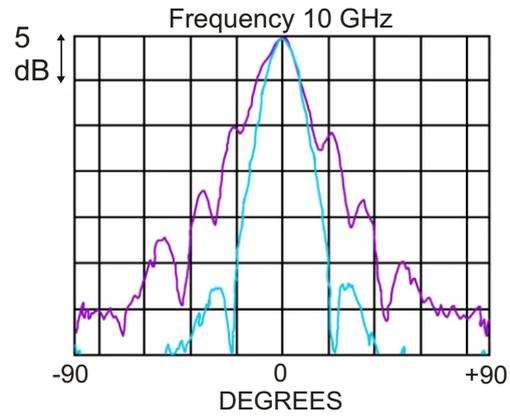
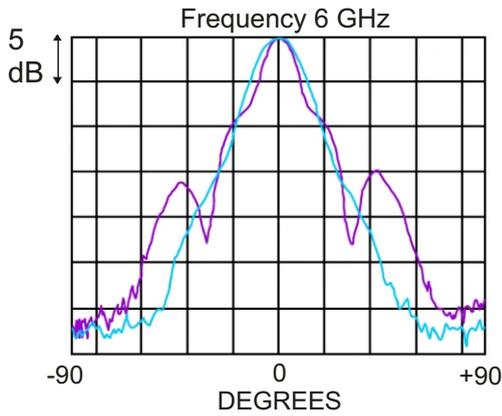
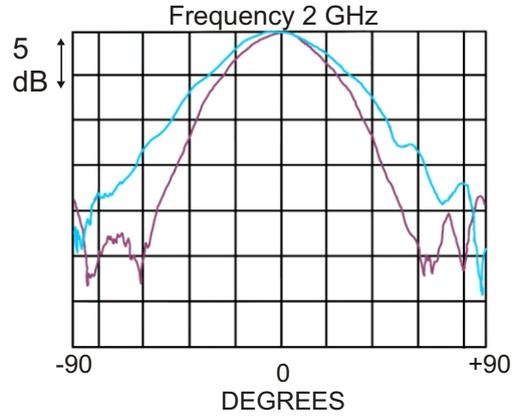


2 - 18 GHz  
High Gain Broadband Horn  
WBH2-18HN/S

H PLANE



E PLANE



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