

0.9 - 18 GHz Dual Polarised Horn Antenna



Model Number WBHDP0.9-18S

- Supplied enclosed in a radome for all-weather use
- Gain 4.5 - 13.4 dBi across the band
- Isolation > 24 dB across the band
- Suitable for use as a Reflector Feed
- Applications include use in Radio Astronomy, Spectrum Monitoring or Surveillance and EMC Emission tests

The WBHDP0.9-18S ultra wide-band 0.9 - 18 GHz dual polarised horn is manufactured from aluminium and engineering plastics. Its compact size combined with its wideband performance and dual polar capability makes this antenna extremely versatile.

Radiation pattern beamwidths are closely matched between E & H planes and have remarkable stability versus frequency. This, and the small variation of phase centre, makes it an attractive candidate for feeds in reflector dishes.

Accessories

QTP-A - Economy Antenna Tripod Unit
QTP-B - Standard Antenna Tripod Unit

Other models available

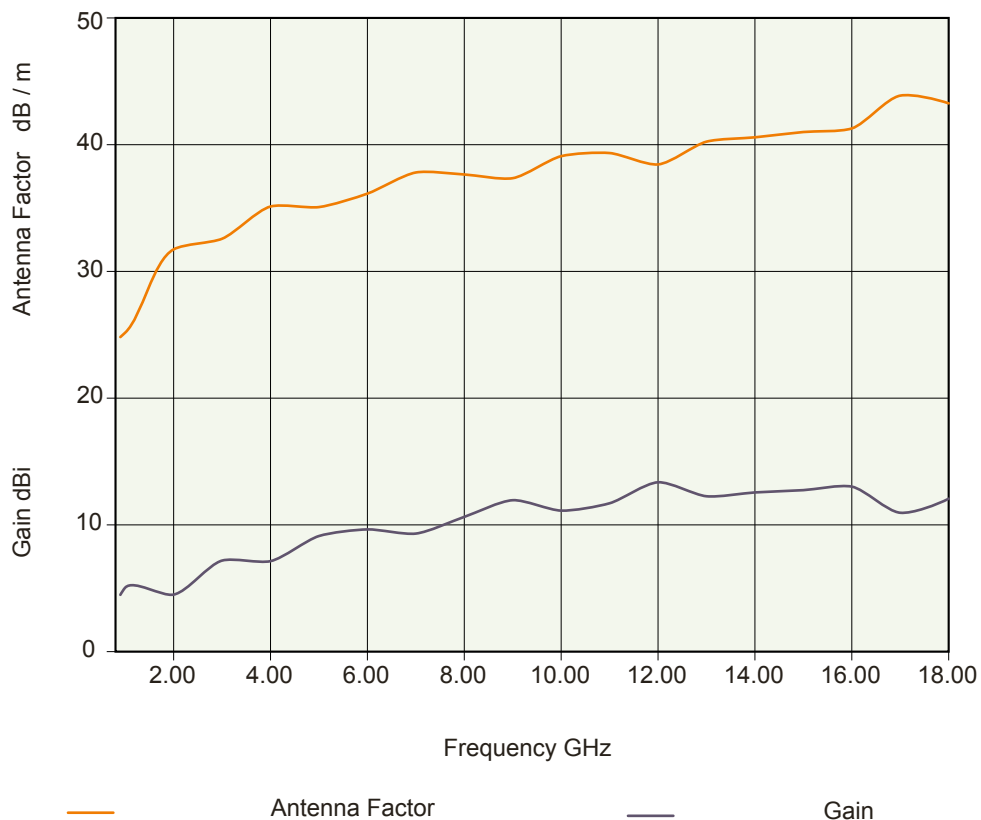
WBHDP2-18# - Standard Gain 2-18 GHz DP version
WBHDP2-18#HG - High Gain 2-18 GHz DP version

Data sheet

Typical Specification

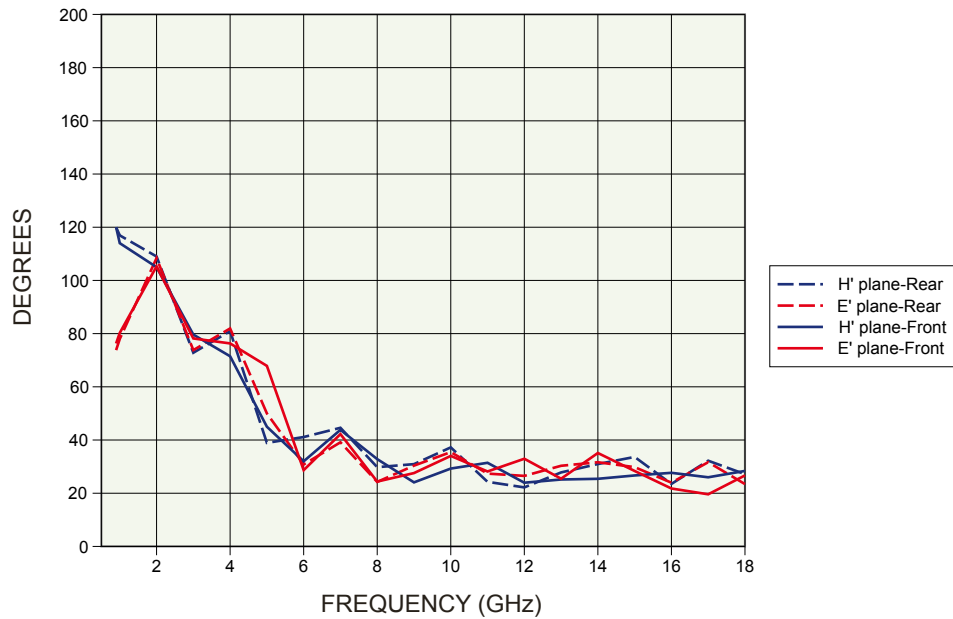
Frequency	0.9 - 18 GHz
Gain	4.5 - 13.4 dBi
Antenna Factor	24.8 - 43.3 dB/m
3dB Beamwidth	120° - 20°
Typical VSWR	1.5 : 1 Max. VSWR 2.2 : 1
Isolation	> 24 dB between connectors
Construction	Aluminium / Composite Material
Power Handling	40 Watts, c.w.
Dimensions	215 mm diameter x 230 mm length
Connector Type	SMA
Mounting	4 holes M6, 90.8 mm PCD
Weight	1.74 kg

Typical Gain / Antenna Factor

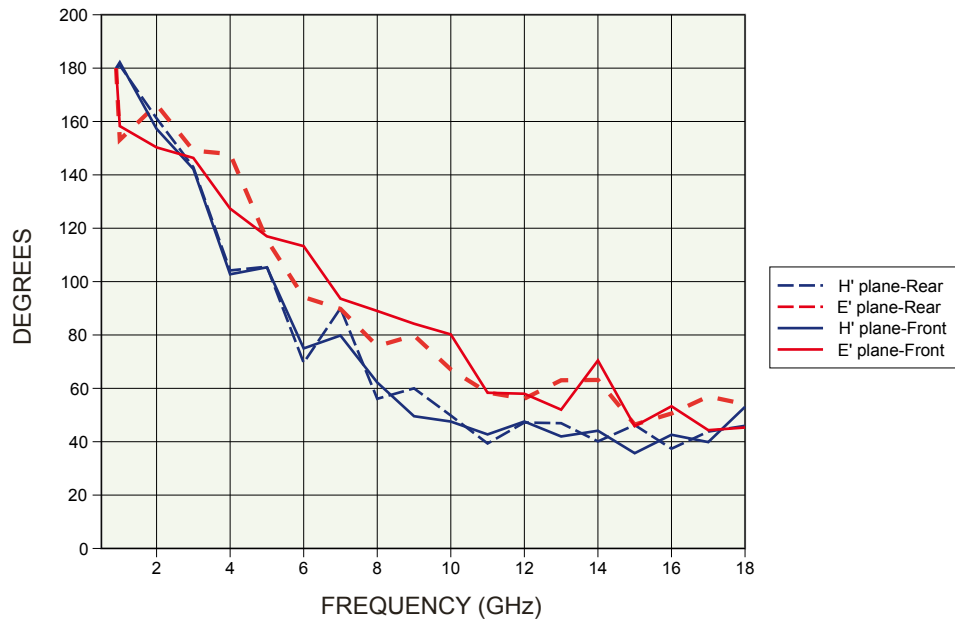


Measured Beamwidths

3 dB Beamwidth



10 dB Beamwidth



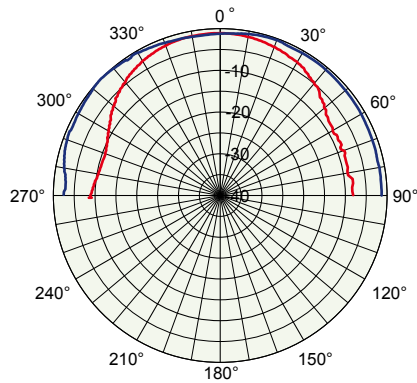
Data Sheet

Antenna Patterns

Key

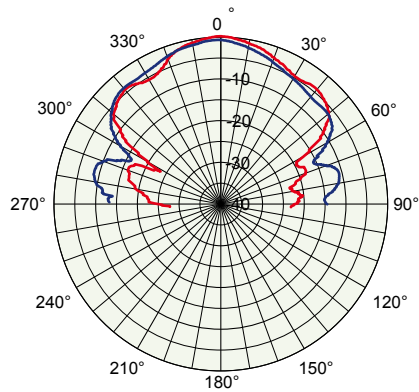


0.9 GHz



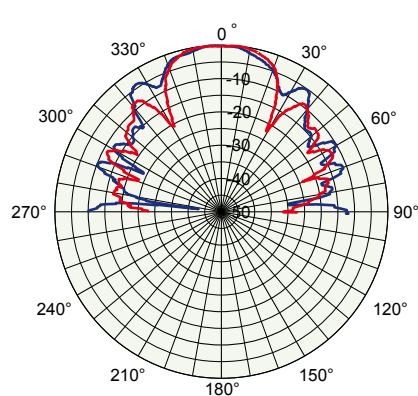
Angle (Degrees)

5 GHz



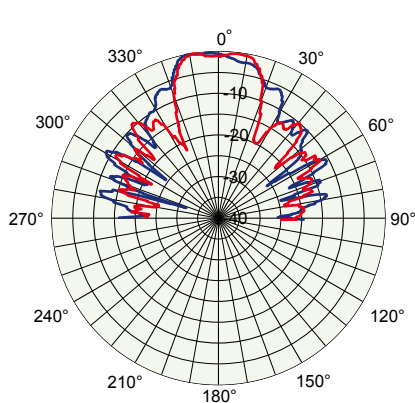
Angle (Degrees)

10 GHz



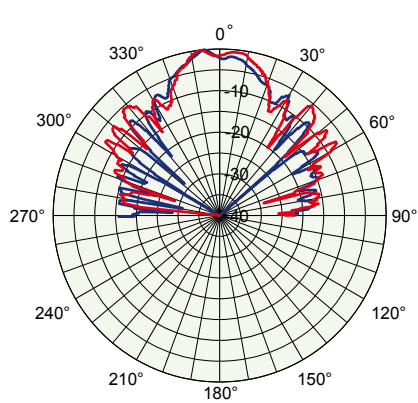
Angle (Degrees)

14 GHz



Angle (Degrees)

18 GHz



Angle (Degrees)

Designed and Manufactured in England to the Highest Standards

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



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