

## **1.2 m Reflector Antenna**

**7.5 to 18 GHz**

**Wideband Feed**

Reflector catalogue number: **QSR-1200-A-457**

Feed catalogue number: **QWF-SL-7.5-18-F**

Q-par reference: **QMS-00393**

Contents: **Summary**  
**Typical Antenna Gain**  
**Typical Beamwidth / Patterns**  
**VSWR**



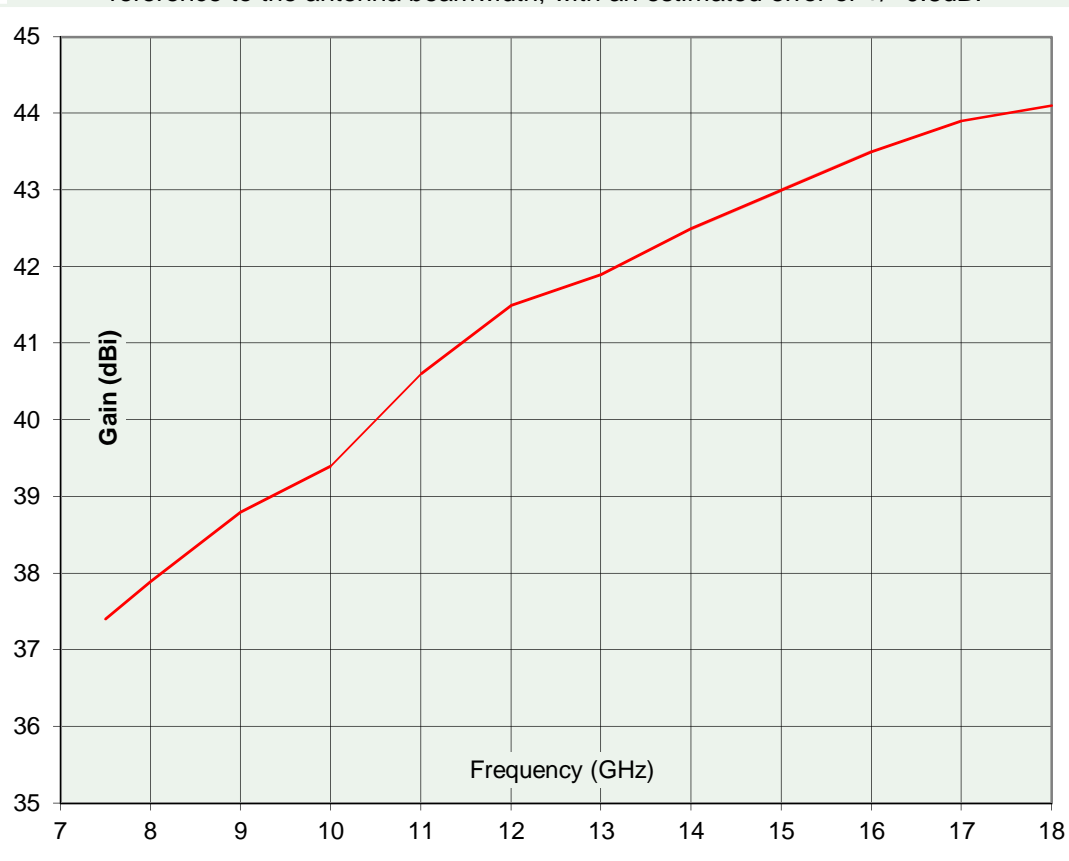
Test Report

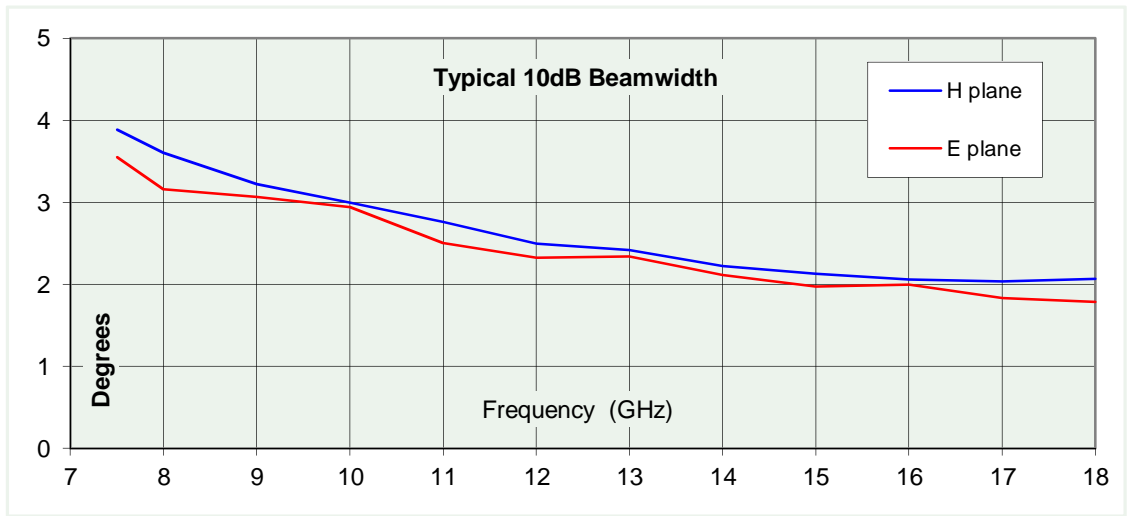
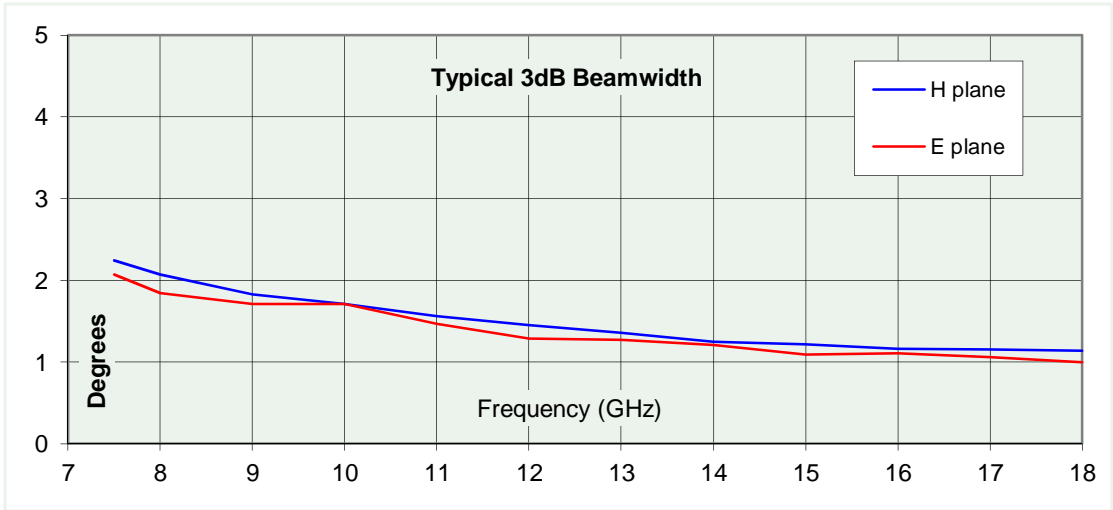
## Typical Specification

Frequency	7.5 to 18 GHz
Connector type	WRD750 Flange
Power Handling	2 kWatt c.w.
VSWR	Typically < 1.6:1                      1.8:1 max.
Gain	37 to 44 dBi
3dB Beamwidth	1 to 2.2 degrees
10dB Beamwidth	1.8 to 3.9 degrees
Weight	14 kg nominal
Focal Length	457 mm
F/D	0.38
Size- max.	Reflector diameter 1230 mm max
Mounting	8 holes, tapped M6, 125 mm p.c.d.
Construction	Spun aluminium reflector, powdercoat finish. Gold plated copper feed, copper waveguide, painted.

## Typical Antenna Gain

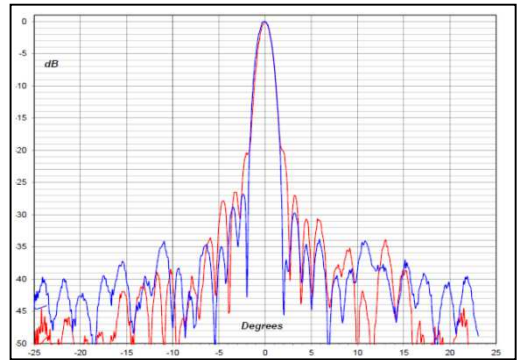
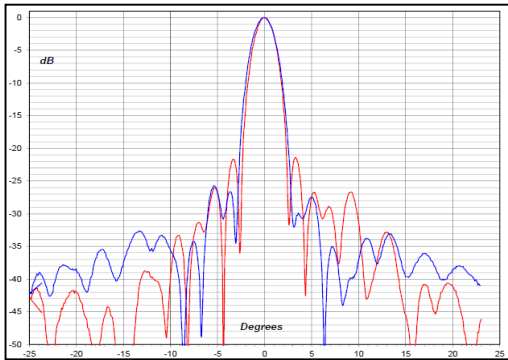
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



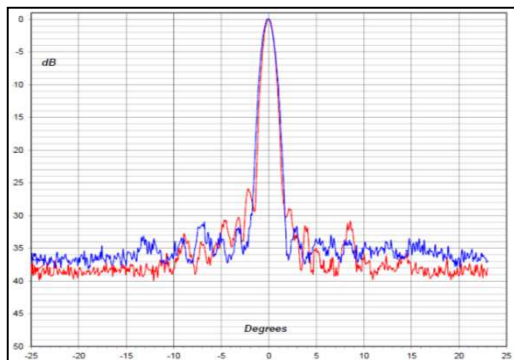


7.5 GHz

12 GHz



18 GHz



Red trace = E-plane, Blue trace = H-plane cut