R&S®HF907 DOUBLE-RIDGED HORN ANTENNA

Specifications

Definitions

The given specifications represent warranted product performance. Compliance is ensured by individual testing during production or by type approval during development. Typical values are designated with the abbreviation (typ.). Single values represent the device performance throughout most of the given frequency range. Details are provided in diagrams. Specifications without limits (<, >, max. or similar) represent mean values.

Electrical specifications

Frequency range		0.8 GHz to 18 GHz
Polarization		linear
Nominal impedance		50 Ω
Antenna factor		see Fig. 1
Gain		5 dBi to 14 dBi (typ.), see Fig. 2
VSWR		< 3.0, see Fig. 3
	above 1.5 GHz	< 2.0
Cross polarization		< –25 dB, < –30 dB (typ.)
HPBW		see Fig. 4
	E plane	90° to 35° (typ.)
	H plane	95° to 25° (typ.)
Max. input power (T = +40 °C)	up to 4.5 GHz	300 W CW
	10 GHz	200 W CW
	18 GHz	150 W CW
RF connector		N female
MTBF		> 100.000 h

Environmental specifications

Operating temperature range		–10 °C to +50 °C
Storage temperature range		–40 °C to +70 °C
Humidity		80 %, +40 °C, in line with EN 60068-2-3
Vibration	sinusoidal	5 Hz to 55 Hz, max. 2 g, 55 Hz to 150, 0.5 g constant, in line with EN 60068-2-6
Shock	SRS	40 g, in line with MIL-STD-810E, method 516.4, proc. I

Mechanical specifications

Dimensions	W × H × L	approx. 305 mm × 226 mm × 280 mm (12.0 in × 8.9 in × 11.0 in)
Weight		approx. 1.9 kg (4.2 lb)

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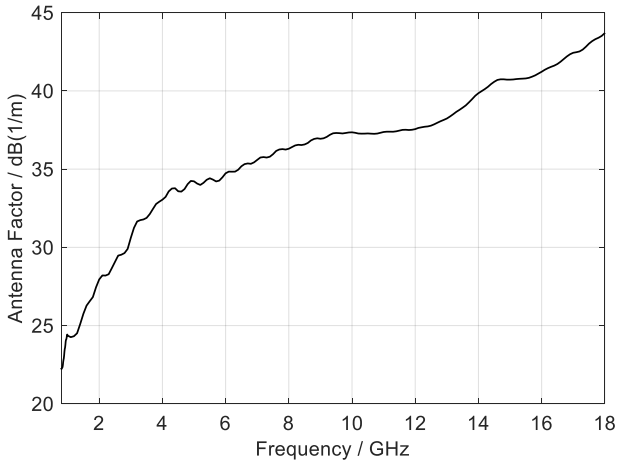

Fig. 1: Typical antenna factor

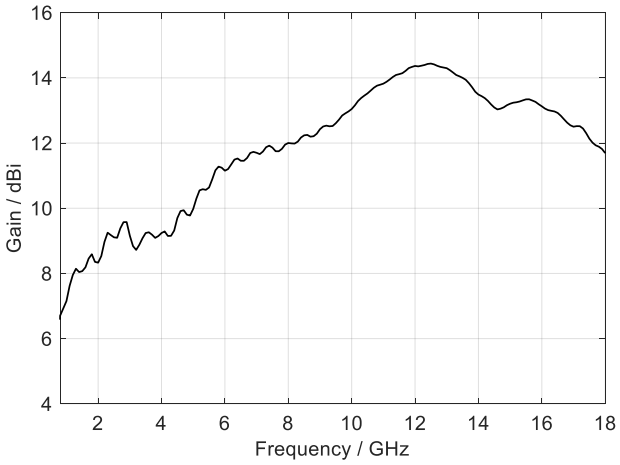

Fig. 2: Typical gain

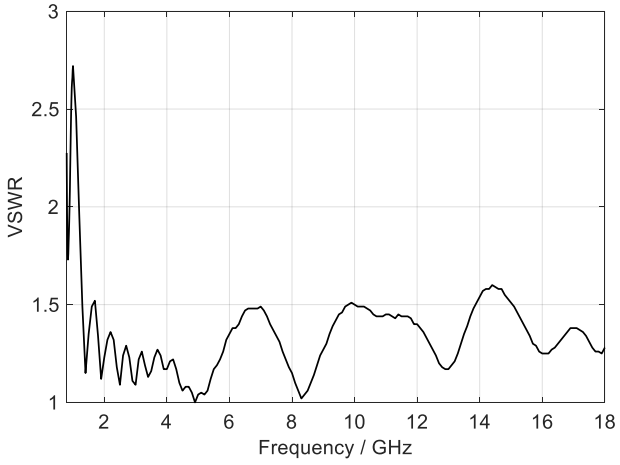

Fig. 3: Typical VSWR

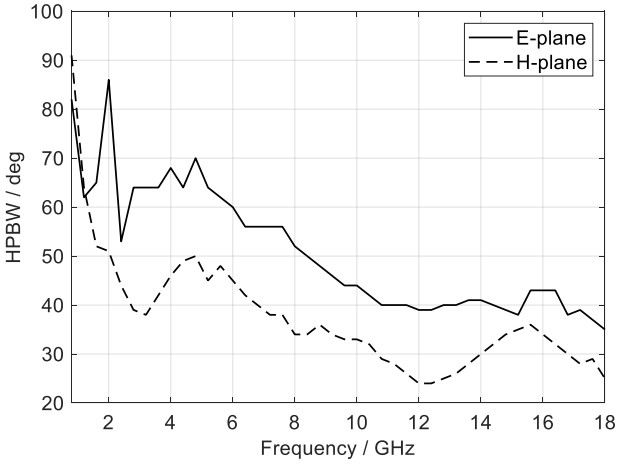

Fig. 4: Typical half-power beamwidth

Ordering information

Designation	Type	Order No.
Double-ridged horn antenna	R&S®HF907	4070.7000.02
Recommended extras		
Wooden tripod	R&S®HZ-1	0837.2310.02
Accredited calibrations available on request		

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