

# R&S®HF907 DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA

800 MHz to 18 GHz

Broadband directional antenna, ideal for  
EMC measurements



The linearly polarized R&S®HF907 double-ridged waveguide horn antenna is a broadband, compact transmitting and receiving antenna for the frequency range from 800 MHz to 18 GHz.

High gain and low VSWR permit the measurement of weak signals and the generation of high field strengths without any significant return loss.

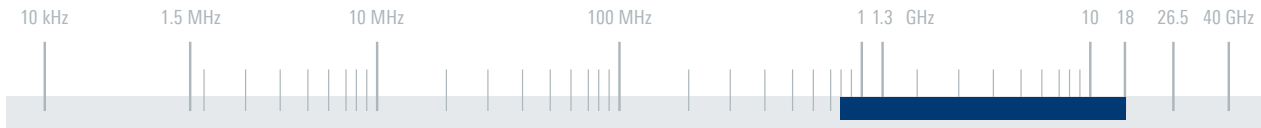
The R&S®HF907 sets itself apart from conventional broadband horn antennas in that its radiation pattern contains only a single main lobe over the entire frequency range; there are no appreciable side lobes.

The antenna is made of aluminum to keep its weight low.

## Key facts

- ▶ Wide frequency range
- ▶ High and constant gain
- ▶ Low VSWR
- ▶ Radiation pattern contains only one main lobe over the entire frequency range
- ▶ Input power up to 300 W (CW)/500 W (PEP)
- ▶ Ideal for use in EMC laboratories
- ▶ Compact size
- ▶ Individual calibrations in line with ANSIC63.5, CISPR 16-1-6 and SAE ARP958
- ▶ Accredited calibration available on request





### Specifications

Frequency range		800 MHz to 18 GHz
Polarization		linear
Cross-polarization		< -25 dB; < -30 dB (typ.)
Nominal impedance		50 Ω
VSWR	f < 1.5 GHz	< 3.0
	f ≥ 1.5 GHz	< 2.0
Maximum input power (+40°C ambient temperature)	0.8 to 4.5 GHz	300 W (CW)
	at 10 GHz	200 W (CW)
	at 18 GHz	150 W (CW)
Gain		5 dBi to 14 dBi (typ.)
Connector		N female
Operating temperature range		-10°C to +50°C
MTBF		> 100000 h
Dimensions	W × H × L	approx. 305 mm × 226 mm × 280 mm (12 in × 9 in × 11 in)
Weight		approx. 1.9 kg (4 lb)

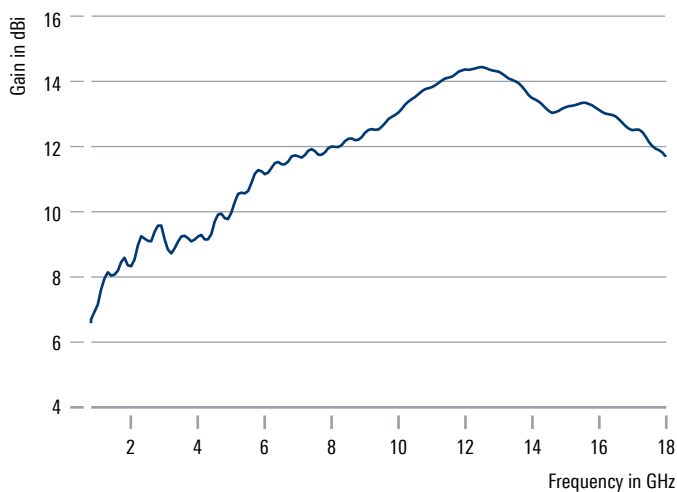
### Ordering information

Ordering information	Type	Order No.
Double-ridged waveguide horn antenna	R&S®HF907	4070.7000.02

### Recommended extra

Wooden tripod	R&S®HZ-1	0837.2310.02
---------------	----------	--------------

### Typical gain



### Typical VSWR

