

R&S®HF9070M Broadband Omnidirectional Antenna

800 MHz to 26.5 GHz

Broadband omnidirectional antenna for detecting and monitoring mobile radio and microwave signals

Also capable of transmitting low-power signals (e.g. for EMS measurements)

New



Features

- Extremely wide frequency range
- Compact dimensions
- High efficiency
- Robust design – ideal for use on board vehicles

Brief description

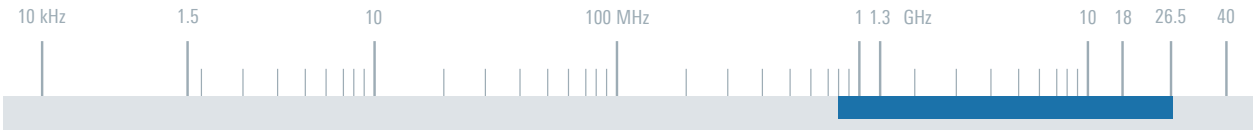
The linearly polarized R&S®HF9070M broadband omnidirectional antenna covers the extremely wide frequency range from 800 MHz to 26.5 GHz.

Its primary fields of application as a receiving antenna are detecting, monitoring and measuring GSM and microwave signals with high sensitivity; as a transmitting antenna, it is primarily designed to transmit low-power signals (e.g. to carry out EMS measurements or to emit test signals).

By using a low-attenuation, weatherproof radome, reliable operation of the antenna is ensured even in harsh environments.

The RF connector is a PC 3.5 female that is mechanically compatible with SMA and K connectors.





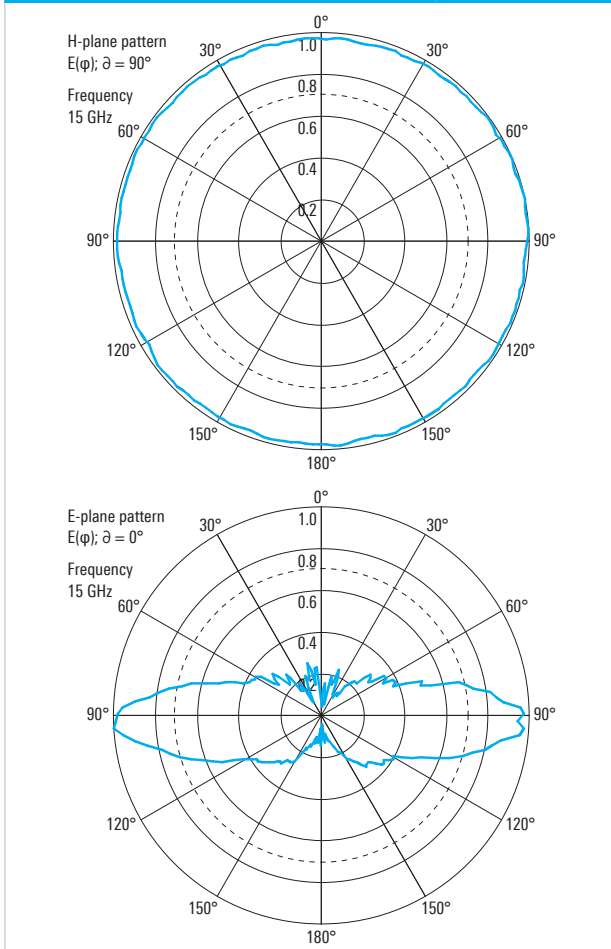
Specifications	
Frequency range	800 MHz to 26.5 GHz
Polarization	linear/vertical
Input impedance	50 Ω
VSWR	≤2.5 (f ≤ 1 GHz), <2.0 (f > 1 GHz)
Max. input power	50 W to 10 W (CW) up to +40°C ambient temperature
Gain	1 dBi to 5 dBi (typ.)
Uncircularity of azimuth pattern	±1 dB (at f < 20 GHz), ±1.5 dB (at f > 20 GHz)
Connector	PC 3.5 female

Operating temperature range	-30°C to +50°C
MTBF	>100 000 h
Permissible wind speed	
Without ice deposit	275 km/h
With 30 mm radial ice deposit	200 km/h
Dimensions (diameter × length)	approx. 210 mm × 260 mm (approx. 8.3 in × 10.2 in)
Weight	approx. 1.5 kg (approx. 3.3 lb)

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Ordering information	Type	Order No.
Broadband Omnidirectional Antenna	R&S®HF9070M	4070.3279.02

Typical azimuth and elevation diagrams



Typical VSWR

