

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)



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

As a receiving antenna, its primary fields of application 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).

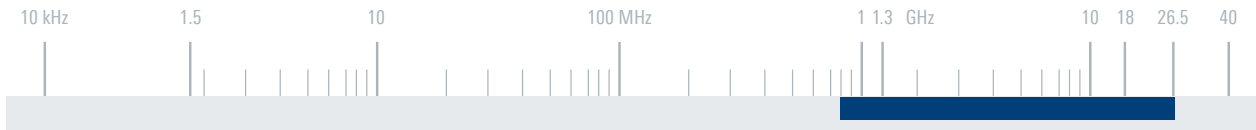
By using a low-attenuation, weatherproof radome, reliable operation of the antenna is ensured even in harsh environments.

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

Key facts

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





Specifications

Frequency range		800 MHz to 26.5 GHz
Polarization		linear/vertical
Input impedance		50 Ω
VSWR	f ≤ 1 GHz f > 1 GHz	≤ 2.5 < 2.0
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	at f < 20 GHz at f > 20 GHz	±1 dB ±1.5 dB
Connector		PC 3.5 female
Operating temperature range		-30°C to +50°C
Protection class		IPx5
MTBF		> 100 000 h
Max. wind speed	without ice deposit with 30 mm radial ice deposit	275 km/h 200 km/h
Dimensions	Ø × H	approx. 210 mm × 265 mm (8 in × 10 in)
Weight		approx. 1.5 kg (3 lb)

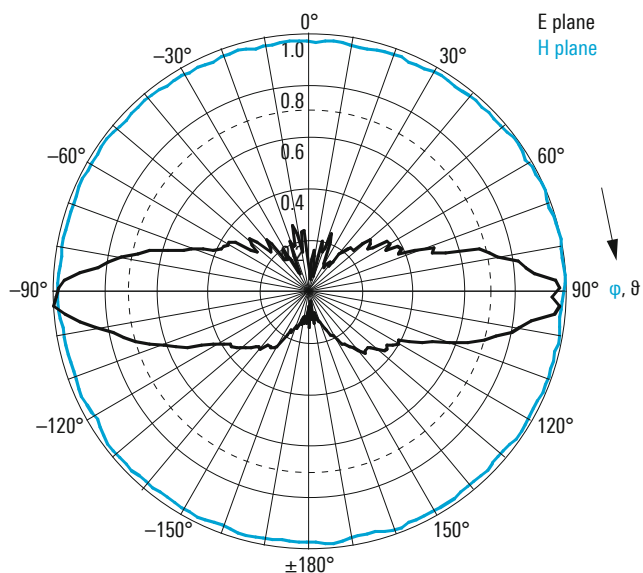
Ordering information

Ordering information	Type	Order No.
Broadband omnidirectional antenna, color: silver grey (RAL 7001)	R&S®HF9070M	4070.3279.02
Broadband omnidirectional antenna, color: squirrel grey (RAL 7000)	R&S®HF9070M	4070.3279.03
Broadband omnidirectional antenna, color: bronze green (RAL 6031)	R&S®HF9070M	4070.3279.04

Recommended extras

Mast and tripod adapter	R&S®KM011Z8	4090.4006.02
Mast, length: 6 m	R&S®KM011	0273.9116.02
Wooden tripod	R&S®HZ-1	0837.2310.02

Typical azimuth and elevation diagrams at 15 GHz



Typical VSWR

