



## VHF/UHF Manpack Antenna R&S® HV 3009

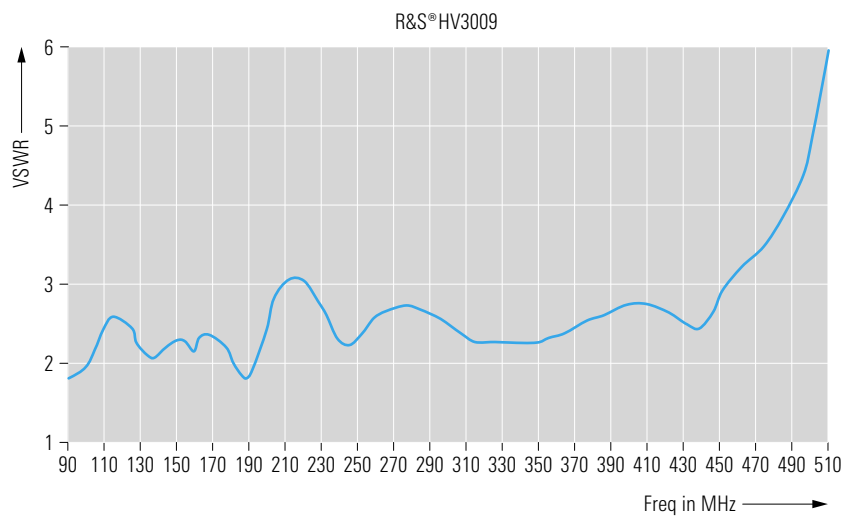
VHF/UHF manpack antenna for R&S®MR 3000 radios

- ◆ Manpack antenna
- ◆ Broadband characteristics
- ◆ Low volume, low weight
- ◆ Completely sealed unit

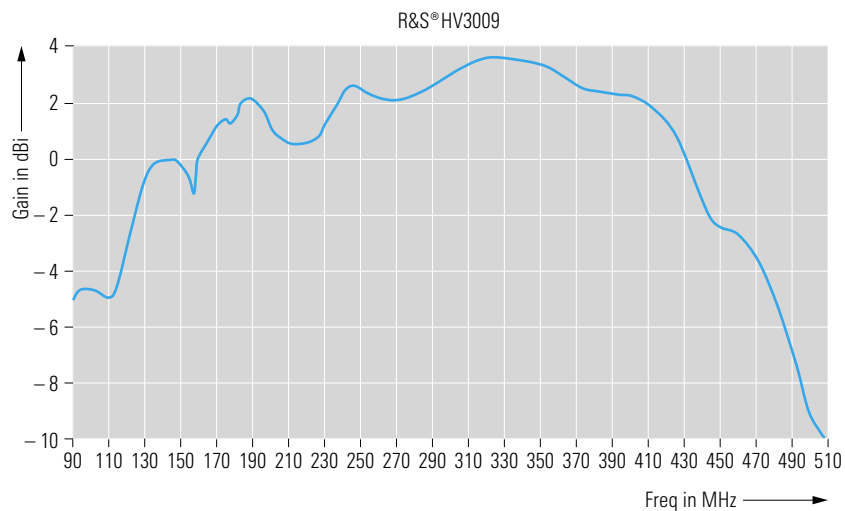


**ROHDE & SCHWARZ**

The R&S®HV3009 is a broadband man-pack antenna. It consists of a sealed metal tube with matt black finish. A matching unit at the base of the antenna ensures proper matching over a wide frequency range. The antenna can be used together with any R&S®MR3000 manpack transceiver.



**Typical standing wave ratio**



**Typical gain**

## Specifications

Frequency range	118 MHz to 400 MHz , fully specified 88 MHz to 450 MHz, reduced data
VSWR	typ. <3.5 , see diagram
Nominal impedance	50 $\Omega$
Power rating	15 W
Radiation pattern	azimuth: omnidirectional
Polarization	vertical
Gain	see diagram
Length	app. 510 mm
Weight	< 0.4 kg
Color	black
Temperature range	(to MIL-STD-810E method 501.3 proc. I + II and method 502.3 proc. I + II
Operating	-40 °C to +71 °C
Storage	-55 °C to +90 °C

### Environmental specifications

Temperature shock	MIL-STD-810E method 503.3, cat.A1
Shock	MIL-STD-810E method 516.4, proc. I, functional shock for ground equip- ment, crossover frequency 45 Hz, 40 g, 6 ms to 9 ms
Vibration	MIL-STD-810E method 514.4, cat- egory 8, ground mobile, +5 Hz to 500 Hz (20 Hz to 350 Hz, 0.02 g <sup>2</sup> /Hz 20 to 5 Hz, -6 dB/octave 350 to 500 Hz, -6 dB/octave) 1 hour per axis or IEC 60068-2-6 test Fc, 5 Hz to 26 Hz, 20 m/s <sup>2</sup> acceleration, 2 hours per axis 20 m/s <sup>2</sup> acceleration 2 hours per axis
Bump	IEC 60068-2-29 test Fb, 40 g, (6 ms) 4000 bumps $\pm$ 10
Leakage (immersion)	1 m during 2 hours, MIL-STD-810E method 512.3, proc. I
Humidity	MIL-STD-810E method 507.3, proc. III, 95 %, non-condensing
Salt fog	MIL-STD-810E method 509 .3, proc. I
Sand and dust	MIL-STD-810E method 510.3, proc. I, blowing dust

Low pressure (altitude)	MIL-STD-810E method 500.3, proc. I+II, 5000 m above sea level at <+35 °C
Solar radiation	MIL-STD-810E method 505.3, proc. II
Icing/freezing rain	MIL-STD-810E method 521.1, proc. I
Fungus	MIL-STD-810E method 508.4
EMI	MIL-STD-461E, class A, receiving and transmitting frequency excluded, RE 102, RS 103
MTBF	150 000 h

## Ordering information

Designation	Type	Order No.
VHF Manpack Antenna	R&S®HV 3009	6126.5967.02

More information at  
[www.rohde-schwarz.com](http://www.rohde-schwarz.com)  
(search term: M3TR)



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