

R&S®HK060 BROADBAND MANPACK ANTENNA

30 MHz to 513 MHz

Reliable communications in VHF and UHF frequency bands for manpack radios



The R&S®HK060 broadband manpack antenna is a vertically polarized omnidirectional receive and transmit antenna specially designed for portable radios. Its extremely broad frequency range from 30 MHz to 513 MHz makes it the ideal antenna for multiband, multirole radios (MMR).

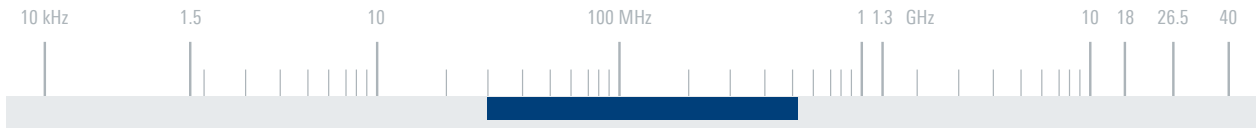
The R&S®HK060 is equipped with a highly flexible bending mechanism allowing the antenna to be bent in almost every direction, e.g.:

- ▶ If you pass underneath low overhangs, it bends back and reerects itself automatically
- ▶ If you bend the antenna twice by 180°, the length of the antenna can be reduced to approx. 60 cm for transportation

Key facts

- ▶ Extremely broad frequency range
- ▶ Good form factor
- ▶ Very good radiation characteristics
- ▶ Optimized impedance matching
- ▶ Sturdy construction
- ▶ Foldable for transportation
- ▶ Designed to bend and reerect itself



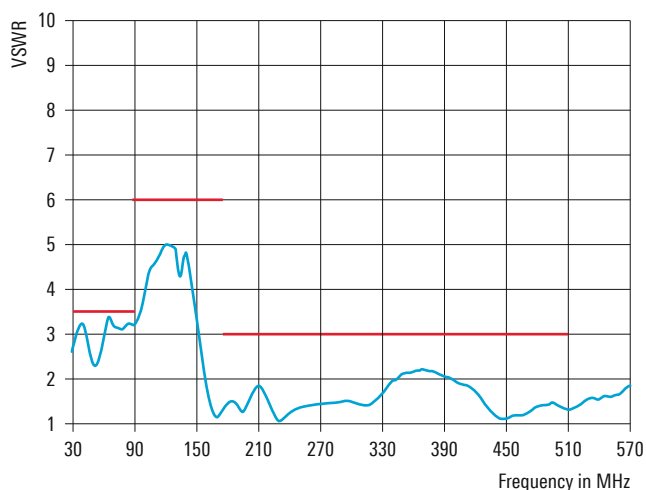


Specifications

Frequency range		30 MHz to 513 MHz
Input impedance		50 Ω
RF connectors		N male (others on request)
VSWR		typ. < 3
30 MHz to 88 MHz		< 3.5
88 MHz to 175 MHz		< 6.0
175 MHz to 513 MHz		< 3.0
Gain	30 MHz to 88 MHz	typ. -2 dBi
	200 MHz to 513 MHz	typ. 0 dBi
Polarization		linear vertical
Radiation pattern		horizontal: omnidirectional
Maximum input power	30 MHz to 88 MHz	20 W CW
	88 Hz to 400 MHz	15 W CW
	> 400 MHz	10 W CW
MTBF		> 100 000 h
Operating temperature range		-40°C to +71°C
Storage temperature range		-50°C to +80°C
Protection class		IP67
Dimensions (Ø × L)	unbent	approx. 35 mm × 1350 mm (1 in × 53 in)
	bent for transportation	approx. 35 mm × 600 mm (1 in × 24 in)
Weight		approx. 0.7 kg (2 lb)

Ordering information	Type	Order No.
Broadband manpack antenna, color: black	R&S®HK060	4075.7008.03

Typical VSWR



Typical gain

