

# R&S®HL050E Log-Periodic Antenna

750 MHz to 6 GHz

For EMI and EMS measurements



The linearly polarized R&S®HL050E log-periodic antenna provides broadband transmission and reception in the frequency range from 750 MHz to 6 GHz.

Precise construction makes the antenna suitable for field strength and EMI measurements.

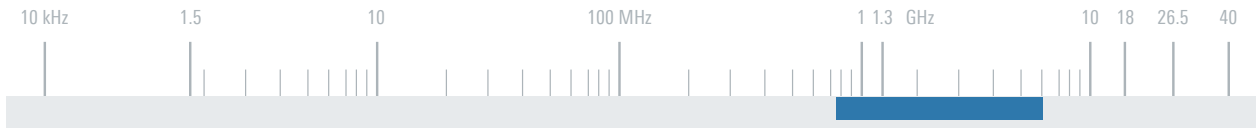
Outstanding power rating and matching (VSWR) allow its use in EMS applications where field strengths of 10 V/m or higher are required.

The compact size and the low weight of this antenna ensure easy handling and make it ideal for use in test chambers and for open-field applications.

## Key facts

- ▮ Wide frequency range
- ▮ Suitable for susceptibility and emission measurements
- ▮ Stable radiation patterns over frequency range ensure optimum illumination of EUT
- ▮ Very low cross-polarization
- ▮ Compact size, low weight
- ▮ Ease of handling
- ▮ Outstanding power rating up to 6 GHz





### Specifications

Frequency range	750 MHz to 6 GHz
Polarization	linear
Nominal impedance	50 $\Omega$
VSWR	
750 MHz to 1300 MHz	< 2.5
Above 1300 MHz	< 2
Gain	typ. 8.5 dBi
Cross-polarization	< -20 dB
Front-to-back-ratio	
750 MHz to 1 GHz	> 15 dB
1 GHz to 6 GHz	> 20 dB

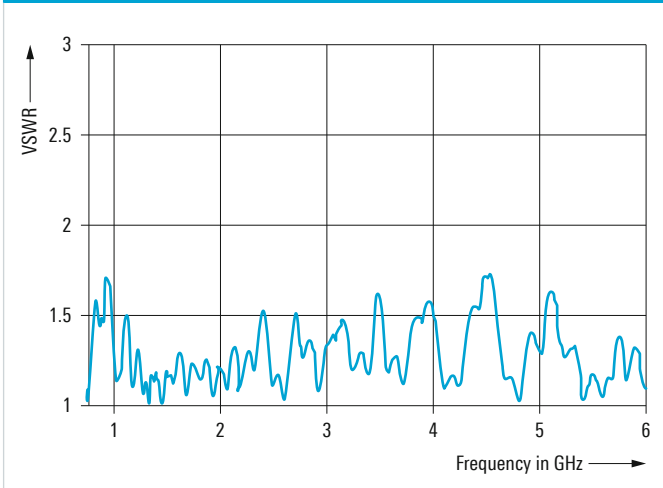
Maximum input power	100 W CW
RF connector	N female
MTBF	> 150000 h
Operating temperature range	-30°C to +55°C
Protection class	IP55
Dimensions ( $\varnothing \times H$ )	approx. 0.21 m $\times$ 0.47 m (8 in $\times$ 19 in)
Weight	approx. 1.4 kg (3 lb)

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### Ordering information

	Type	Order No.
Log-Periodic Antenna	R&S®HL050E	4100.1003.02
<b>Recommended extras</b>		
Wooden Tripod	R&S®HZ-1	0837.2310.02
Adapter for R&S®HZ-1	R&S®KM011Z10	4100.1703.02

### Typical VSWR



### Typical antenna factor

