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 radiated emission measurements and immunity testing
- ► 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

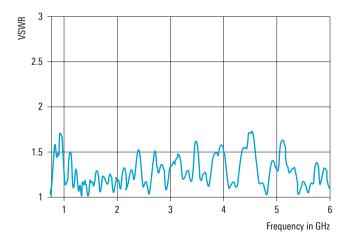




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Specifications		
Frequency range		750 MHz to 6 GHz
Polarization		linear
Nominal impedance		50 Ω
VSWR	750 MHz to 1300 MHz	< 2.5
	above 1300 MHz	< 2
Gain		typ. 8.5 dBi
Cross-polarization		< -20 dB
Front-to-back-ratio	750 MHz to 1 GHz	> 15 dB
	1 GHz to 6 GHz	> 20 dB
Maximum input power		100 W CW
RF connector		N female
MTBF		> 100 000 h
Operating temperature range		−30°C to +55°C
Protection class		IP55
Dimensions	Ø×H	approx. 0.21 m \times 0.47 m (8 in \times 19 in)
Weight		approx. 1.4 kg (3 lb)

Ordering information	Туре	Order No.
Log-periodic antenna	R&S®HL050E	4100.1003.02
Recommended extras		
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

