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
**SHF Antennas** R&S®HL050E Log-Periodic Antenna

**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

**Ordering information**

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<td>Wooden Tripod</td>
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**Maximum input power**: 100 W CW
- **RF connector**: N female
- **MTBF**: > 150 000 h
- **Operating temperature range**: −30 °C to +55 °C
- **Protection class**: IP55
- **Dimensions (Ø × H)**: approx. 0.21 m × 0.47 m (8 in × 19 in)
- **Weight**: approx. 1.4 kg (3 lb)

**Typical VSWR**

**Typical antenna factor**

**Rohde & Schwarz** HF – VHF/UHF – SHF Antennas | Catalog 2017/2018

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