

R&S®HL024A1 Crossed Log- Periodic Antenna

1 GHz to 18 GHz

Log-periodic directional antenna for simultaneous reception of horizontally and vertically polarized waves

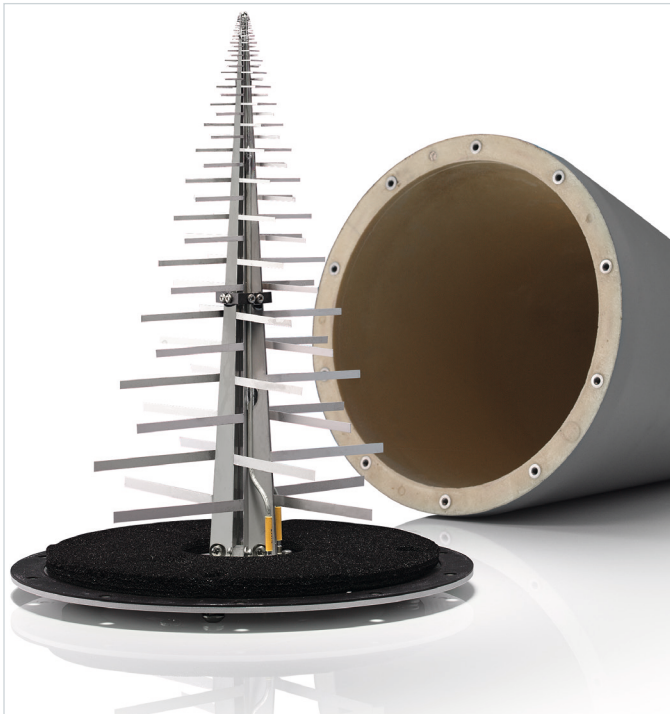


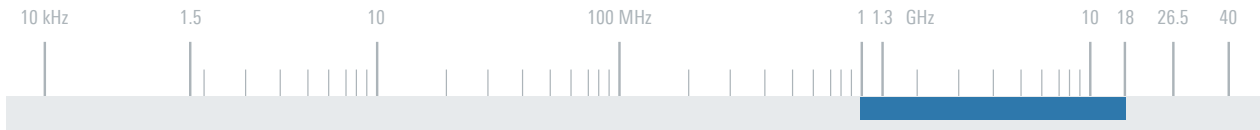
The R&S®HL024A1 crossed log-periodic antenna is designed for simultaneous reception of horizontally and vertically polarized waves.

It can also be used as a transmitting antenna for low power and as a feed for the R&S®AC008 microwave directional antenna.

Key facts

- Horizontal and vertical polarization
- Wide frequency range
- Virtually frequency-independent radiation pattern
- Usable as a feed for R&S®AC008 microwave directional antenna





Specifications

| | |
|------------------|--------------------------------|
| Frequency range | 1 GHz to 18 GHz |
| Polarization | linear/horizontal and vertical |
| Input impedance | 50 Ω |
| VSWR | ≤ 2.5 |
| Max. input power | 9 W to 2.5 W CW |
| Gain | typ. 7 dBi |
| Connector | 2 \times SMA female |

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|--|--|
| Operating temperature range | -30°C to +55°C |
| Max. wind speed | 180 km/h (without ice deposit) |
| MTBF | > 150000 h |
| Dimensions ($\varnothing \times H$; with radome) | approx. 210 mm \times 300 mm (8 in \times 12 in) |
| Weight | approx. 0.7 kg (2 lb) |

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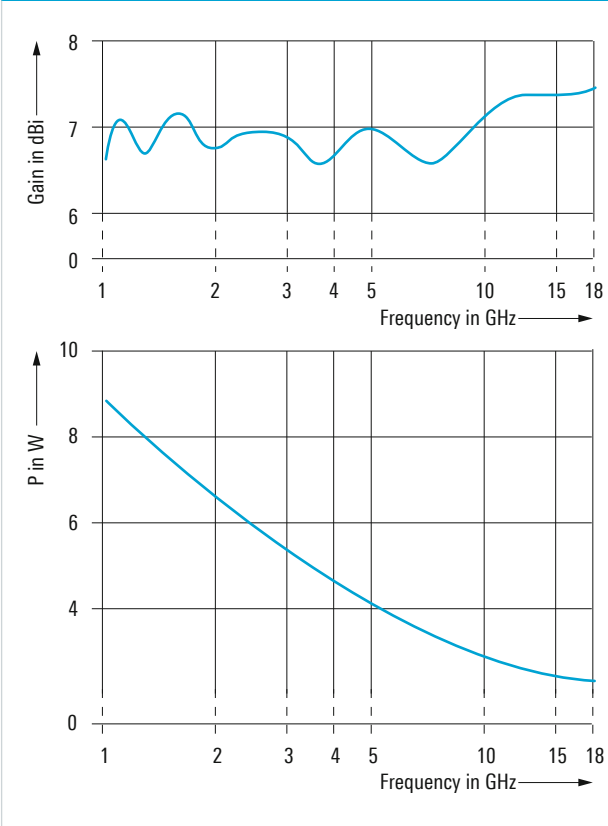
Ordering information

| Ordering information | Type | Order No. |
|------------------------------|-------------|--------------|
| Crossed Log-Periodic Antenna | R&S®HL024A1 | 0650.7510.03 |

Recommended extras

| | | |
|-------------------------------|-------------|--------------|
| Microwave Cable, length: 5 m | R&S®AC008W2 | 0751.6931.04 |
| Microwave Cable, length: 10 m | R&S®AC008W2 | 0751.6931.05 |
| Adapter for R&S®HZ-1 | R&S®HL025Z1 | 4053.4006.03 |
| Wooden Tripod | R&S®HZ-1 | 0837.2310.02 |

Typical gain and power-handling capacity



Typical radiation patterns

