

R&S®HL024S2 Crossed Log- Periodic Antenna

1 GHz to 18 GHz

Log-periodic directional antenna consisting of the R&S®HL024A1 and a passive polarization switching network



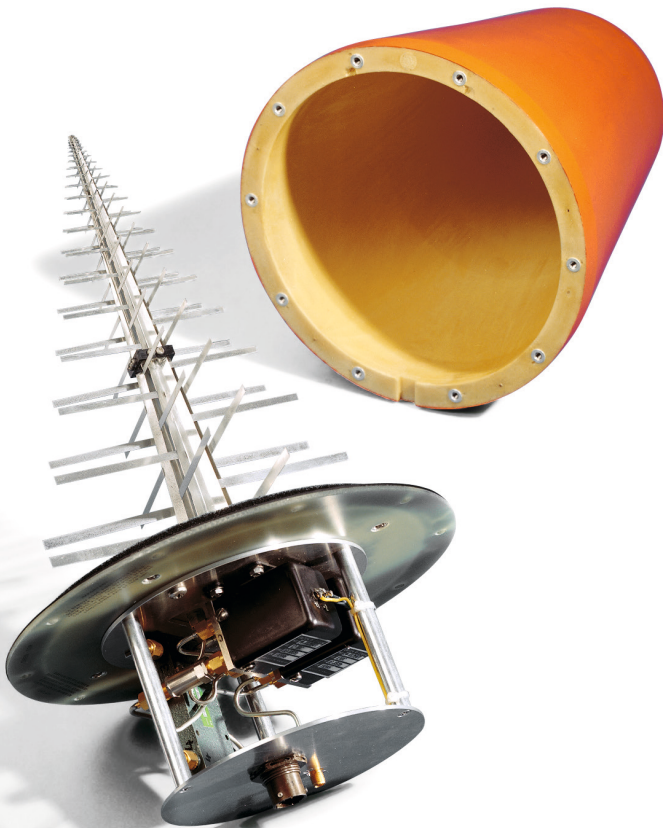
The R&S®HL024S2 crossed log-periodic antenna can be used for waves with horizontal, vertical, left-hand or right-hand circular polarization.

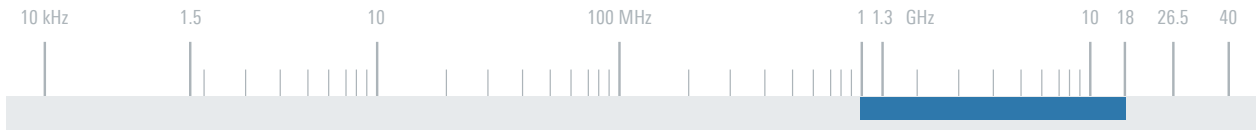
It consists of the R&S®HL024A1 antenna and a polarization switching network. Polarization can be selected by remote control using e.g. the R&S®GB016.

The R&S®HL024S2 can also be used as a feed for the R&S®AC008 microwave directional antenna.

Key facts

- Horizontal, vertical, left-hand or right-hand circular polarization
- Wide frequency range
- Virtually frequency-independent radiation pattern
- Remote controlled polarization selection with optional R&S®GB016 control unit
- Usable as a feed for R&S®AC008 microwave directional antenna





Specifications

| | |
|------------------|---|
| Frequency range | 1 GHz to 18 GHz |
| Polarization | horizontal, vertical, left-hand or right-hand circular (selectable) |
| Input impedance | 50 Ω |
| VSWR | < 3 |
| Max. input power | 9 W to 2.5 W CW |
| Antenna gain | |
| linear | typ. 6 dBi |
| circular | typ. 5 dBi |

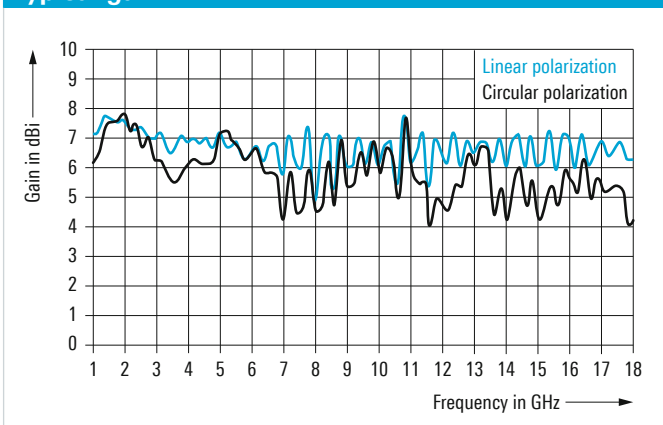
| | |
|---------------------------------|--|
| Power supply | 12 V DC, 1 A |
| Connector | SMA female |
| Control connector | 10-contact, round, male |
| Operating temperature range | −30°C to +55°C |
| Max. wind speed | 180 km/h (without ice deposit) |
| MTBF | > 150000 h |
| Dimensions (Ø × H; with radome) | approx. 210 mm × 353 mm (8 in × 14 in) |
| Weight | approx. 1.7 kg (4 lb) |

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Ordering information

| | Type | Order No. |
|-------------------------------|-------------|--------------|
| Crossed Log-Periodic Antenna | R&S®HL024S2 | 4052.1003.02 |
| Recommended extras | | |
| Control Unit | R&S®GB016 | 4056.7006.03 |
| Control Cable, length: 10 m | R&S®GB016Z1 | 4056.7270.02 |
| 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



Typical radiation patterns (linear polarization)

