# **SHF Antennas**

# Crossed Log-Periodic Antenna R&S®HL024S2

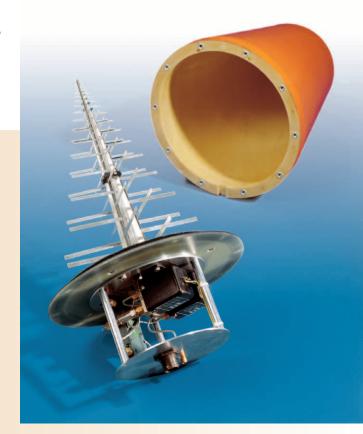


1 GHz to 18 GHz

Log-periodic directional antenna

consisting of R&S®HL024A1 and passive

polarization switching network



#### **Features**

- Horizontal, vertical, left-hand or right-hand circular polarization
- ◆ Wide frequency range
- Radiation pattern virtually independent of frequency
- Remote-controlled polarization selection with optional Control Unit R&S®GB016
- ◆ Can be used as a feed for the Directional Antennas R&S®AC 008 to R&S®AC 300

#### **Brief description**

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

It consists of the Antenna R&S®HL024A1 and a polarization switching network. Polarization can be selected by remote control using the R&S®GB016, for instance.

The R&S®HL024S2 can also be used as a feed for the Directional Antennas R&S®AC 008 to R&S®AC 300.

### Specifications

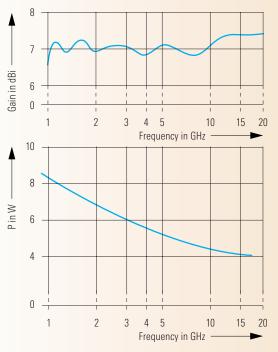
Frequency range	1 GHz to 18 GHz
Polarization	horizontal, vertical, left-hand or right-hand
	circular (selectable)
Input impedance	50 Ω
VSWR	
1 GHz to 12 GHz	≤2.5
12 GHz to 18 GHz	≤3
Gain (switching network	
taken into account)	4 dBi to 6 dBi
Circularity	typ. 2 dB

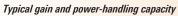
Connector	SMA female
Control connector	10-contact, round, male
Operating	
temperature range	-40 °C to +55 °C
Max. wind speed	180 km/h (without ice deposit)
MTBF	>150 000 h
Dimensions (diameter ×	height)
With radome	approx. 210 mm × 353 mm
Weight	approx. 1 kg

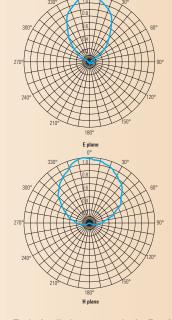
## Ordering information

Crossed		
Log-Periodic Antenna	R&S®HL024S2	4052.1003.02

Recommended extras					
Control Unit	R&S®GB016	4056.7006.02			
Control Cable, 10 m	R&S®GB016Z1	4056.7270.02			
Microwave Cable, 5 m	R&S®AC008W2	0751.6931.04			
Microwave Cable, 10 m	R&S®AC008W2	0751.6931.05			







Typical radiation patterns in the E and H planes