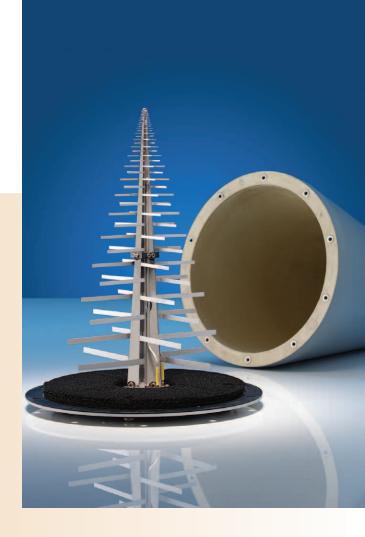
SHF Antennas

Crossed Log-Periodic Antennas R&S®HL024A1/S1



1 GHz to 18 GHz

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



Features

- Horizontal and vertical polarization
- Wide frequency range
- Radiation pattern virtually independent of frequency
- Can be used as a feed for the Microwave Directional Antenna R&S®AC008 (R&S®HL024A1)
- Can be used as a feed for the SHF Directional Antenna Systems R&S® AC 090 to R&S® AC 300 (R&S® HL 024S1)

Brief description

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

It can also be used as a transmitting antenna for low power.

The R&S[®]HL024A1 can additionally be used as a feed for the Microwave Directional Antenna R&S[®]AC008.

The log-periodic directional R&S®HL024S1 is of identical design and can be used as a feed for the SHF Directional Antenna Systems R&S®AC090 to R&S®AC300.



Specifications

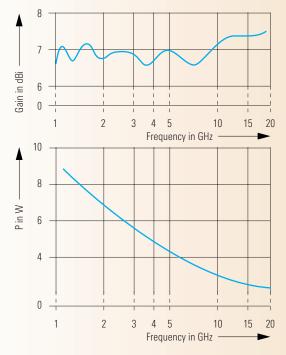
1 GHz to 18 GHz
linear/horizontal and vertical
50 Ω
≤2.5
10 W CW to 3 W CW
typ. 7 dBi
$2 \times SMA$ female

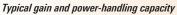
-40 °C to +55 °C				
180 km/h (without ice deposit)				
>150 000 h				
Dimensions (diameter × height)				
approx. 210 mm $ imes$ 300 mm				
approx. 0.7 kg				

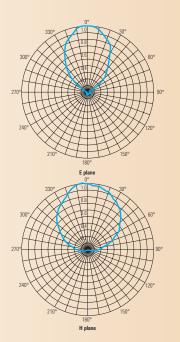
Ordering information

Crossed		
Log-Periodic Antenna	R&S®HL024A1	0650.7510.03
Crossed		
Log-Periodic Antenna	R&S®HL024S1	4055.1256.02

Recommended extras		
Microwave Cable, 5 m	R&S®AC008W2	0751.6931.04
Microwave Cable, 10 m	R&S®AC008W2	0751.6931.05
Mast Adapter	R&S®HL025-Z	0661.9910.02
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.02
Wooden Tripod	R&S®HZ-1	0837.2310.02







Typical radiation patterns in the E and H planes