

R&S® AC025DP DUAL-POLARIZED REFLECTOR ANTENNA

18 GHz to 40 GHz

Broadband microwave reflector antenna
with preamplifier



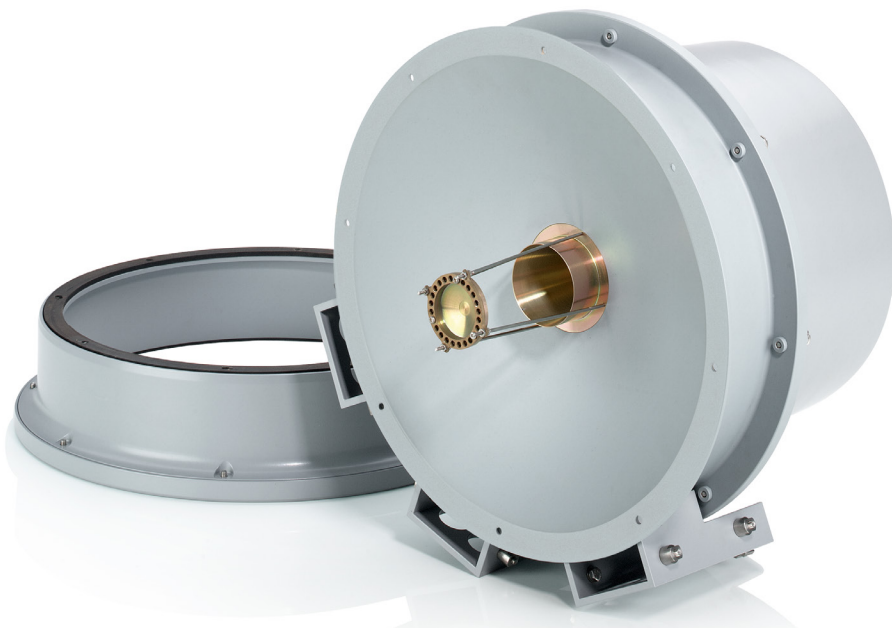
The R&S®AC025DP dual-polarized reflector antenna has been optimized for use in the range from 18 GHz to 40 GHz.

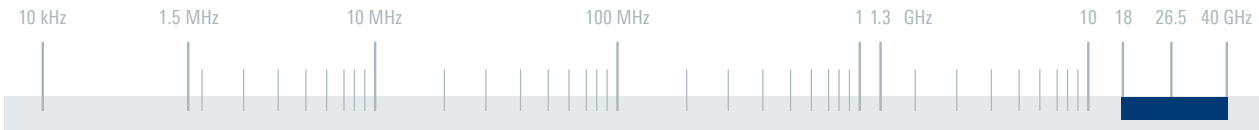
For independent operation, the antenna is installed on a tripod.

The antenna is equipped with two integrated preamplifiers for simultaneous signal processing.

Key facts

- ▶ Extremely wide frequency range
- ▶ Simultaneous reception of two orthogonal polarization planes
- ▶ Fast and simple installation
- ▶ Sturdy mechanical design





Specifications

Antenna

Frequency range		18 GHz to 40 GHz
Polarization		2 × linear (orthogonal to each other)
Input impedance		50 Ω
VSWR (with preamplifier)		< 3.0; < 2.5 (typ.)
Gain		26 dBi to 32 dBi
Half-power beamwidth		4.5° to 2° (typ.)
Reflector diameter		250 mm
Connector		2 × K female

Preamplifier (typical values)

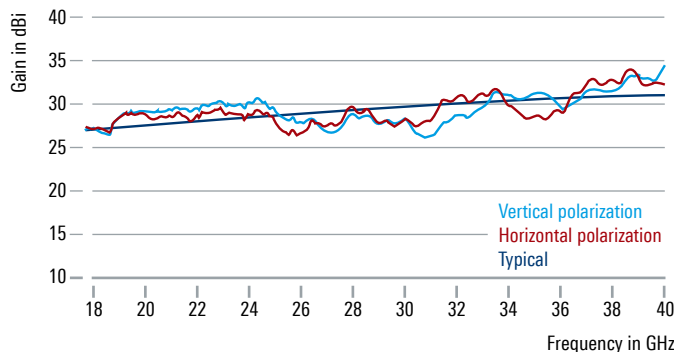
Gain		min. 28 dB
1 dB compression point		> 5 dBm
Noise figure		max. 5 dB
Power consumption		15 V/0.5 A (max.)
MTBF		> 50 000 h
Operating temperature range		-30°C to +55°C
Dimensions	Ø × L	approx. 320 mm × 340 mm (13 in × 13 in)
Weight		approx. 5 kg (11 lb)

5

Ordering information	Type	Order No.
Dual-polarized reflector antenna	R&S®AC025DP	4062.5830.02

Recommended extras		
Power supply	R&S®IN308	4059.6752.02
Adapter for R&S®HZ-1	R&S®KA308R2	4057.8606.00
Wooden tripod	R&S®HZ-1	0837.2310.02

Typical antenna gain



Typical radiation patterns at 33 GHz

