

R&S®AC025DP Dual-Polarized Reflector Antenna

18 GHz to 40 GHz

Broadband microwave reflector antenna
with preamplifier



Features

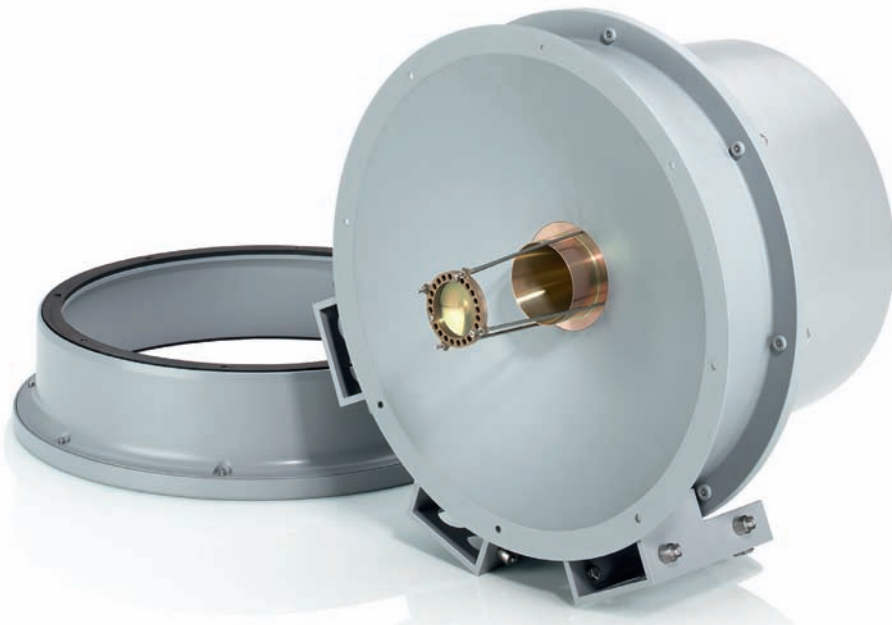
- Extremely wide frequency range
- Simultaneous reception of two orthogonal polarization planes
- Can be integrated into the R&S®AC090 to R&S®AC300 SHF directional antenna systems
- Fast and simple installation
- Sturdy mechanical design

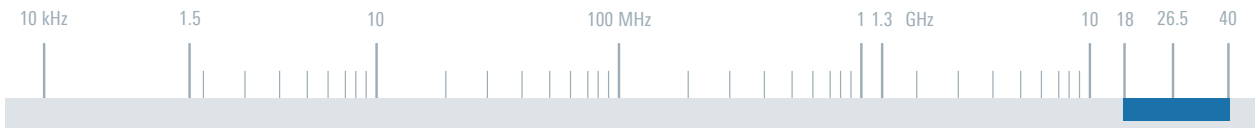
Brief description

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

For independent operation, the antenna is installed on a tripod or, for frequency range extension, it can be combined with the steerable R&S®AC090 to R&S®AC300 SHF directional antenna systems.

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





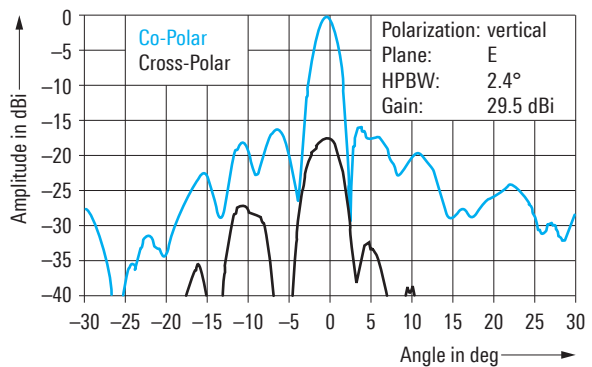
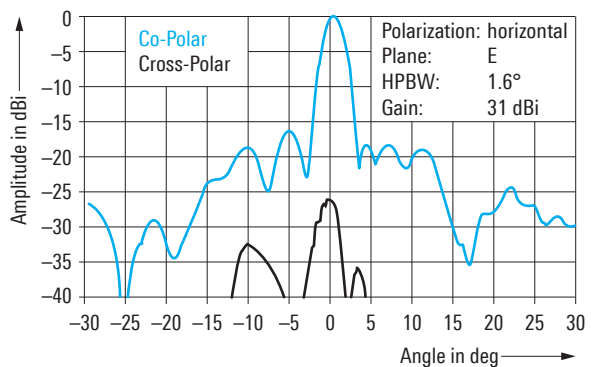
Specifications	
Antenna	
Frequency range	18 GHz to 40 GHz
Polarization	2 × linear (orthogonal to each other)
Input impedance	50 Ω
VSWR (with preamplifier)	<3.0 (typ. <2.5)
Gain	26 dBi to 32 dBi
Half-power beamwidth	4.5° to 2° (typ.)
Reflector diameter	250 mm
Connector	2 × K female

Preamplifier (typical values)	
Gain	min. 28 dB
1 dB compression point	typ. >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 (diameter × length)	approx. 320 mm × 340 mm (approx. 12.6 in × 13.4 in)
Weight	approx. 5 kg (approx. 11.0 lb)

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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 Wooden Tripod R&S®HZ-1	R&S®KA308R2	4057.8606.00
Wooden Tripod	R&S®HZ-1	0837.2310.02

Typical radiation pattern at 33 GHz



Typical antenna gain

