

# SHF Antennas

## Dual-Polarized Reflector Antenna R&S® AC 025DP



**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 SHF Directional Antenna Systems R&S® AC090/120/180/300
- ◆ Fast and simple installation
- ◆ Sturdy mechanical design

### Brief description

The Dual-Polarized Reflector Antenna R&S® AC025DP 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 SHF Directional Antenna Systems R&S® AC090/120/180/300.

The antenna is equipped with an integrated preamplifier for optimal signal processing.



## Specifications

### Antenna

Frequency range	18 GHz to 40 GHz
Polarization	2 × linear (orthogonal relative 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	typ. >30 dB
1 dB compression point	typ. >8 dBm
Noise figure	typ. <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
Weight	approx. 5 kg

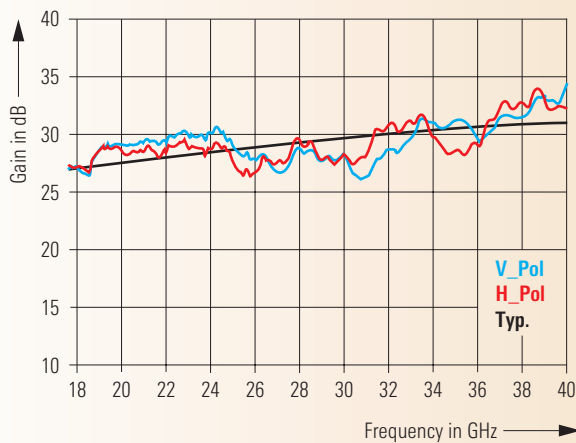
## Ordering information

### Dual-Polarized

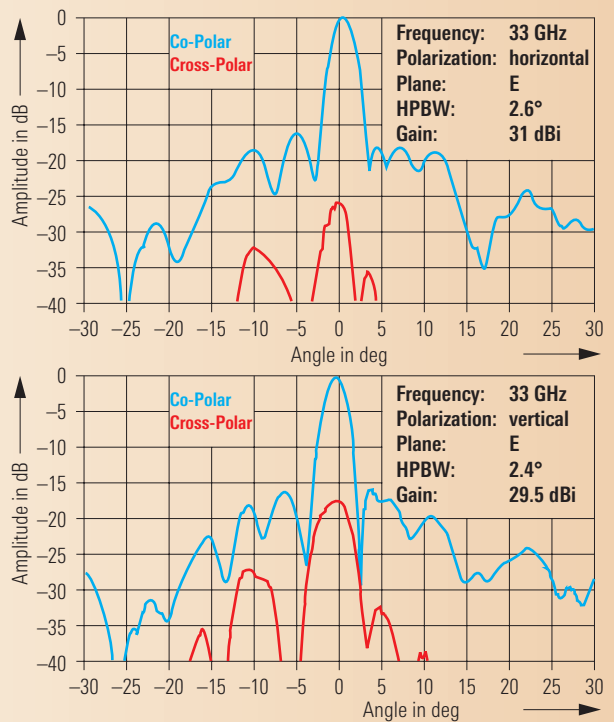
Reflector Antenna	R&S® AC025DP	4062.5830.02
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### Recommended extras

Power Supply	R&S® IN308	4059.6752.02
Adapter for		
Tripod R&S® HZ-1	R&S® KA308R2	4057.8606.00
Tripod	R&S® HZ-1	0837.2310.02



Typical gain



Typical radiation pattern