

# R&S®AC308R2 SHF DIRECTIONAL ANTENNA

18 GHz to 26.5 GHz

Broadband directional antenna for radiomonitoring



The R&S®AC308R2 SHF directional antenna for the frequency range from 18 GHz to 26.5 GHz has a reflector diameter of 25 cm.

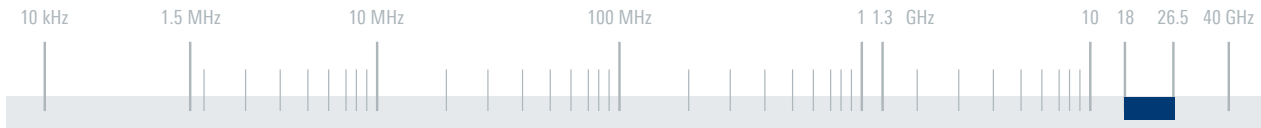
The antenna is supplied with an integrated preamplifier (model .02) or without a preamplifier (model .04).

The R&S®AC308R2 with optional tripod, adapter and power supply can be operated independently.

## Key facts

- ▶ Wide frequency range
- ▶ Fast and simple installation
- ▶ Rugged design





## Specifications

### Antenna

Frequency range	18 GHz to 26.5 GHz
Polarization	H, V or 45°, depending on installation
Input impedance	50 Ω
VSWR	< 3
Gain	30 dBi to 33 dBi
Half-power beamwidth	4.5° to 3°
Reflector diameter	250 mm
Connector	K female

### Preamplifier (typical values)

Gain	> 28 dB
1 dB compression point	≥ +10 dBm
Noise figure	< 3 dB
Power consumption	+15 V/0.2 A
MTBF	model .04 (passive) model .02 (active)
	> 100 000 h > 100 000 h
Operating temperature range	-20°C to +50°C
Dimensions	L × Ø approx. 380 mm × 300 mm (15 in × 12 in)
Weight	approx. 4 kg (9 lb)

5

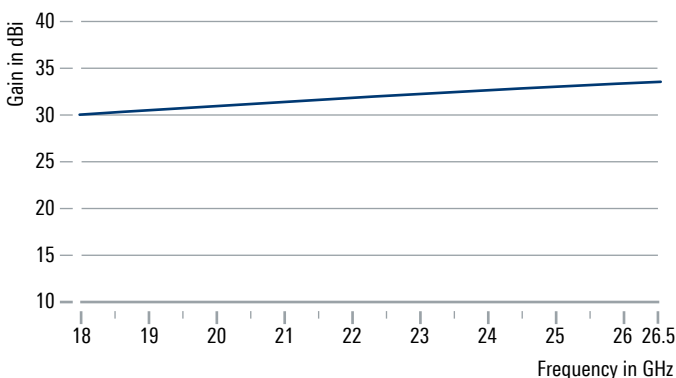
## Ordering information

Type	Order No.
SHF directional antenna	R&S®AC308R2
With preamplifier, 18 GHz to 26.5 GHz	4051.6001.02
Without preamplifier, 18 GHz to 26.5 GHz	4051.6001.04

## Recommended extras

Power supply	R&S®IN308	4059.6752.02
Transit case	R&S®AC308Z	4059.6500.02
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 pattern at 26.5 GHz

