

# R&S®AC308R3 SHF/EHF DIRECTIONAL ANTENNA

26.5 GHz to 40 GHz

Broadband directional antenna for radiomonitoring



The R&S®AC308R3 SHF/EHF directional antenna for the frequency range from 26.5 GHz to 40 GHz has a reflector diameter of 25 cm.

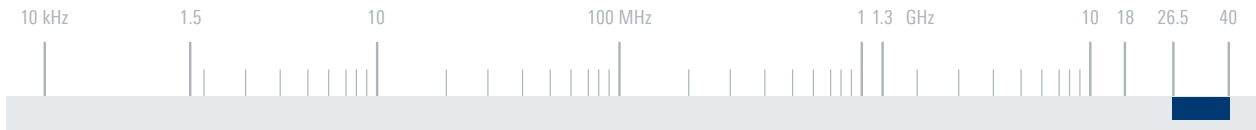
The antenna is supplied with an integrated preamplifier (model .02) or without a preamplifier (model .04).

The R&S®AC308R3 with optional tripod, adapter and power supply can be operated independently.

### Key facts

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





## Specifications

### Antenna

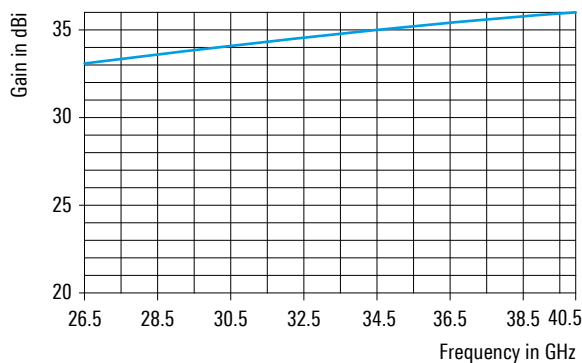
Frequency range	26.5 GHz to 40 GHz	
Polarization	H, V or 45°, depending on installation	
Input impedance	50 Ω	
VSWR	< 3	
Gain	33 dBi to 36 dBi	
Half-power beamwidth	3° to 2°	
Reflector diameter	250 mm	
Connector	K female	

### Preamplifier (typical values)

Gain	> 30 dB	
1 dB compression point	≥ +10 dBm	
Noise figure	< 4 dB	
Power consumption	+15 V/0.2 A	
MTBF	model .04 (passive)	> 250 000 h
	model .02 (active)	> 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)	

Ordering information	Type	Order No.
<b>SHF/EHF directional antenna</b>	<b>R&amp;S®AC308R3</b>	
With preamplifier, 26.5 GHz to 40 GHz		4051.6253.02
Without preamplifier, 26.5 GHz to 40 GHz		4051.6253.04
<b>Recommended extras</b>		
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 40 GHz

