

R&S®AC308R3 SHF/EHF Directional Antenna

26.5 GHz to 40 GHz

Broadband directional antenna for
radiomonitoring



Features

- Fast and simple installation
- Rugged design
- Integrated in operational concept of R&S®AC090 to R&S®AC300 SHF directional antenna systems

Brief description

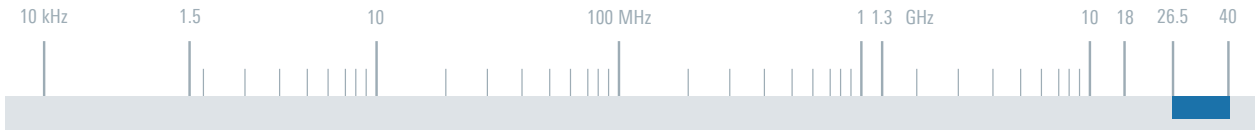
The R&S®AC308R3 SHF/EHF directional antenna for the frequency range 26.5 GHz to 40 GHz has a reflector diameter of 25 cm.

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

The R&S®AC308R3 is especially suitable for extending the frequency range of the R&S®AC090 to R&S®AC300 SHF directional antenna systems to which it can be flange-connected.

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





Specifications

Antenna

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

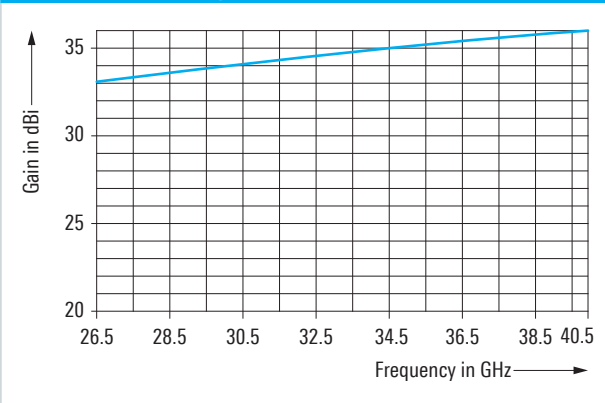
Preamplifier (typical values)

Gain	28 ±2 dB
1 dB compression point	≥+8 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 (diameter × length)	approx. 380 mm × 300 mm (approx. 15.0 in × 11.8 in)
Weight	approx. 2.5 kg (approx. 5.5 lb)

Ordering information

	Type	Order No.
SHF/EHF Directional Antenna	R&S®AC308R3	
With preamplifier, 26.5 GHz to 40 GHz		4051.6253.02
Without preamplifier, 26.5 GHz to 40 GHz		4051.6253.04
Recommended extras		
Power Supply	R&S®IN308	4059.6752.02
Transit Case	R&S®AC308Z	4059.6500.02
Adapter for Wooden Tripod R&S®HZ-1	R&S®KA308R2	4057.8606.00
Wooden Tripod	R&S®HZ-1	0837.2310.02

Typical antenna gain



Typical radiation pattern at 40 GHz

