SHF Antennas

SHF Directional Antenna R&S®AC 308R2



18 GHz to 26.5 GHz Broadband directional antenna for radiomonitoring



Features

- Fast and simple installation
- Rugged design
- Integrated in operational concept of SHF Directional Antenna Systems R&S[®]AC 090 to R&S[®]AC 300

Brief description

The SHF Directional Antenna R&S®AC 308R2 for the frequency range 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 preamplifier (model .04).

The R&S®AC 308R2 is especially suitable for extending the frequency range of the SHF Directional Antenna Systems R&S®AC 090 to R&S®AC 300 to which it can be flange-connected.

The R&S[®] AC 308R2 with optional tripod, adapter and power supply can also be used independently.



Specifications

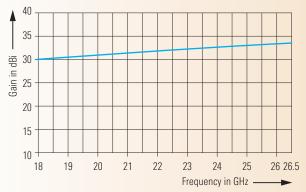
Antenna				
Frequency range	18 GHz to 26.5 GHz			
Polarization	H, V or 45°, depending on installation			
Input impedance	50 Ω			
VSWR	<2			
Gain	29 dBi to 33 dBi			
Half-power beamwidth	4.5° to 3°			
Reflector diameter	250 mm			
Connector	K female			
Preamplifier (typical values)				
Gain	28 ±2 dB			
1 dB compression point	≥+8 dBm			

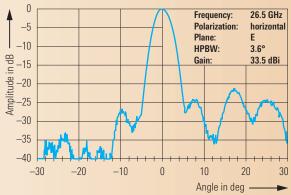
Noise figure	<3 dB
Power consumption	+15 V/0.2 A
MTBF	
Model .04 (passive)	>250 000 h
Model .02 (active)	>100 000 h
Operating	
temperature range	-20°C to +50°C
Dimensions	
(diameter \times length)	approx. 380 mm $ imes$ 300 mm
Weight	approx. 2.5 kg

Ordering information

SHF Directional Antenna				
With preamplifier,				
18 GHz to 26.5 GHz	R&S®AC 308R2	4051.6001.02		
Without preamplifier,				
18 GHz to 26.5 GHz	R&S®AC 308R2	4051.6001.04		

Recommended extras		
Power Supply	R&S®IN 308	4059.6752.02
Transit Case	R&S®AC 308Z	4059.6500.02
Adapter for		
Tripod R&S®HZ-1	R&S®KA 308R2	4057.8606.00
Tripod	R&S®HZ-1	0837.2310.02





Typical radiation pattern at 26.5 GHz

Typical gain