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VHF/UHF Antennas

Active Receiving Dipole R&S®HE 302





20 MHz to 500 MHz

Optimized for very small dimensions

Features

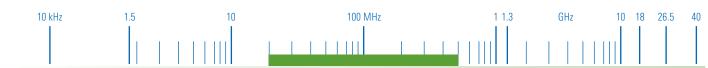
- High sensitivity despite small dimensions
- Wide frequency range
- High immunity to nonlinear distortion
- High immunity to lightning strokes in the vicinity
- Low weight
- Extremely small dimensions
- Shock- and vibration-proof

Brief description

The Active Receiving Dipole R&S®HE302 features a very wide frequency range despite its small dimensions. Its high input sensitivity is the result of optimized matching of the passive antenna structure to the active circuitry.

These characteristics allow several passive antennas to be replaced by an Active Receiving Dipole R&S®HE302.

Similar to a passive antenna with high-grade preamplifiers, the active antenna is highly insensitive to nonlinear distortion.



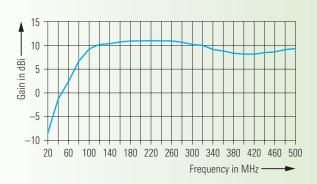
Specifications

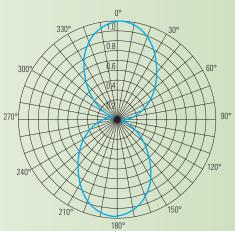
	Frequency range	20 MHz to 500 MHz	
	Polarization	linear	
	Input impedance	50 Ω	
	VSWR	<2.5	
	Electronic gain	-11 dB to +8 dB	
	Practical gain	-9 dBi to +10 dBi	
	Directivity	2 dB (average)	
	Antenna factor	0 dB to 14 dB	
	Noise figure		
	20 MHz	28 dB	
	500 MHz	9 dB	
	Field strength sensitivity ($\Delta f = 1 \text{ kHz}$)		
	20 MHz	-15 dB(µV/m)	
	500 MHz	6 dB(μV/m)	

IF	2	>60 dBm
IF	23	>30 dBm
Р	ower supply	
	Up to +40 °C	18 V to 30 V DC, approx. 170 mA
	Up to +75°C	18 V to 25 V DC, approx. 170 mA
С	onnector	N female
Ν	ITBF	>50 000 h
0	perating	
te	emperature range	-40 °C to +75 °C
Ν	lax. wind speed	180 km/h (without ice deposit)
D	imensions (L \times H)	approx. 1 m \times 240 mm
V	Veight	approx. 2.5 kg

Ordering information

Active Receiving Dipole	R&S®HE302	0644.1114.02	Recommended extras		
			Power Supply Unit	R&S®IN 115	4004.1707.02
			Mast Adapter (for special		
			polarization alignment		
			only)	R&S®HE202Z1	0649.7510.02
			RF Cable	R&S®HE202Z2	0649.7785.02





Typical radiation pattern in the E plane at 200 MHz

Typical practical gain