

R&S®HE055

Active

Omnidirectional Receiving Antenna

1.5 MHz to 600 MHz

With excellent large-signal characteristics and high sensitivity



The R&S®HE055 active omnidirectional receiving antenna has an extremely wide frequency range from 1.5 MHz to 600 MHz. Applications in this frequency range require only one antenna.

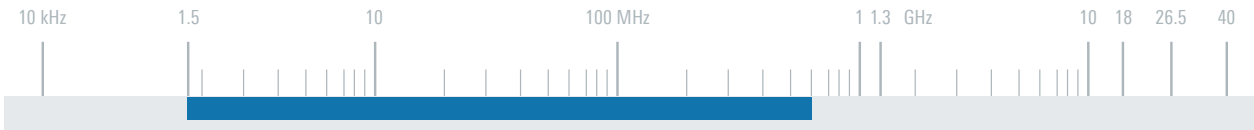
Its rugged mechanical design and small size make the antenna suitable both for stationary and various mobile applications.

The antenna's excellent large-signal characteristics allows it to operate in areas of high signal levels.

Its low noise figure provides high sensitivity for reception of very weak signal levels.

Key facts

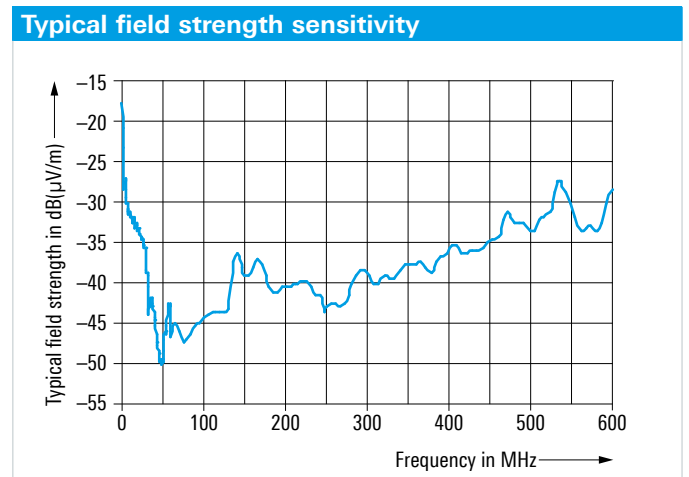
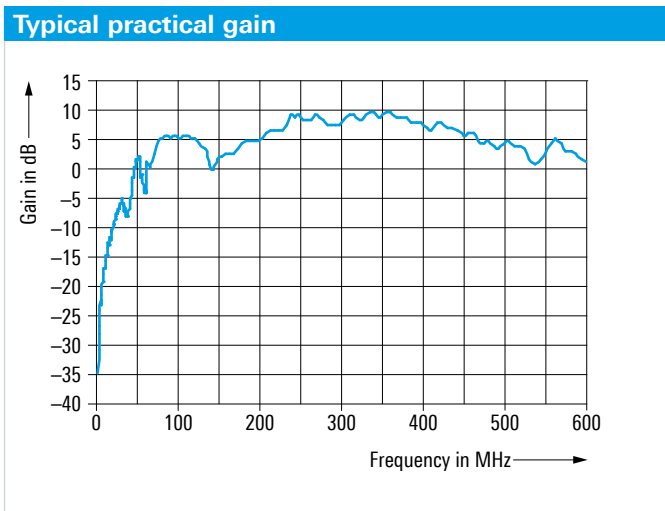
- Active omnidirectional receiving antenna
- Extremely wide frequency range
- Space- and cost-optimized monitoring by using only one antenna in the system
- Excellent immunity to high signal levels
- High sensitivity due to very low noise figure
- Rugged mechanical design (specially designed for mobile use and harsh environments)



Specifications	
Frequency range	1.5 MHz to 600 MHz
Polarization	vertical
Input impedance	50 Ω
VSWR	
1.5 MHz to 30 MHz	< 1.5
30 MHz to 600 MHz	< 3.0
Transducer factor (for antenna mounted to conductive plane)	7 dB/m to 30 dB/m (typ.)
IP2	typ. ≥ 65 dBm
IP3	typ. ≥ 40 dBm

1 dB compression point	≥ 10 dBm
Power supply	21 V to 32 V DC (max. 500 mA)
Connector	N female
MTBF	> 250 000 h
Operating temperature range	-40°C to +85°C
Max. wind speed	200 km/h
Dimensions (Ø × L)	approx. 153 mm × 1406 mm (6 in × 55.4 in)
Weight	approx. 3.5 kg (7.7 lb)

Ordering information	Type	Order No.
Active Omnidirectional Receiving Antenna	R&S®HE055	4065.1120.02
Recommended extras		
Bias Unit	R&S®IN600	4094.3004.xx



At antenna output (measurement bandwidth Δf = 1 Hz; S/N = 0 dB).