



Active Loudspeaker/Microphone R&S® GA3003

Loudspeaker box with built in audio amplifier and a microphone

The R&S® GA3003 consists of a loudspeaker box with built in audio amplifier and a microphone. The active loudspeaker / microphone can be connected directly to the audio interface of R&S® MR3000 transceivers.

In contrast to handsets the received signal is audible over several meters. The unit features a PTT switch and a quick fastening to fix it at clothing or bags. R&S® GA3003 needs no external power supply.



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Specifications

Electrical data	
Audio operating frequency range	0.3 kHz to 3.3 kHz
Input voltage (full spec)	12 VDC to 33 VDC (from R&S®MR3000 radio)
Input voltage (operating)	9 VDC to 33 VDC (from R&S®MR3000 radio)
Speaker amplifier input sensitivity	2,5 V rms/600 mW
Speaker Amplifier Input Impedance	Approx. 6.8 k Ω 10 nF balanced
Harmonic distortion	<3 % /600 mW/1 kHz
Mic. harmonic distortion	3 % /1 kHz/10 P _a
Microphone paraphonic sensitivity	1 mV/P _a \pm 5 dB into open circuit
Max. speaker amplifier output power	600 mW at 1 kHz
Environmental data	
Temperature range (acc to MIL-STD-810E method 501.3 and 502.3)	
Operational	-40 °C to + 70 °C
Full specified	-25 °C to + 55 °C
Storage	-40 °C to + 85 °C
Temperature shock	acc. MIL-STD-810E method 503.3, cat. A1
Shock	acc. MIL-STD-810E method 516.4, proc. I (functional shock) for ground equipment, crossover frequency 45 Hz, 40 g, 6 ms to 9 ms
Transit drop	acc. MIL-STD-810E method 516.4, proc. IV, (height of drop 122 cm)
Vibration	acc. MIL-STD-810E method 514.4, cat. 8, ground mobile, 5 Hz to 500 Hz (20 Hz to 350 Hz, 0.02 g ² /Hz, 20 Hz to 5 Hz, -6 dB/octave, 350 Hz to 500 Hz, -6 dB/octave)
Leakage (immersion)	acc. MIL-STD-810E method 512.3, proc. I, 1 m during 2 hours
Salt fog	acc. MIL-STD-810E method 509.3, proc. I
Low pressure (altitude)	acc. MIL-STD-810E method 500.3, proc. I + II, 5000 m above sea-level at < +35 °C
Humidity	MIL-STD-810E method 507.3, proc. III

Solar radiation (sunshine)	acc. MIL-STD-810E method 505.3, proc. II
EMI	acc. MIL-STD-461 class A3 (harmonics, spurious and transmission frequency excluded), CS114, RE102, RS103 (200 V/m, army platform)
Mechanical data	
Dimensions (\varnothing ; depth)	72 mm; 60 mm
Weight	400 g
MTBF	30000 h

Ordering information

Designation	Type	Order No
Microphone/Speaker	R&S® GA3003	6098.3001.02



More information at
www.rohde-schwarz.com
 (search term: M3TR)



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