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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz APN62 Audio Frequency Generator

Rohde & Schwarz APN62 Audio Frequency Generator 1 Hz to 260 kHz The R&S APN62 is a synthesized audio frequency generator covering 1 Hz to 260 kHz. It is an upgraded APN06 with an output transformer (20 Hz to 25 kHz / 2 kohm) and different AC supply ranges; remaining specifications match APN06. Digital synthesis provides crystal accuracy, 1 Hz resolution (0.1 Hz below 20 kHz), and phase-continuous frequency changes for analog-like sweeps. Sine and square outputs, frequency and level sweeps, and source impedance 10 ohm to 640 ohm support electroacoustics, filters, and ALC tests. Distortion is below 0.05 percent to 20 kHz and below 0.1 percent to 100 kHz. The R&S APN62 is a synthesized audio frequency generator covering 1 Hz to 260 kHz. It is an upgraded APN06 with an output transformer (20 Hz to 25 kHz / 2 kohm) and different AC supply ranges; remaining specifications match APN06. Digital synthesis provides crystal accuracy, 1 Hz resolution (0.1 Hz below 20 kHz), and phase-continuous frequency changes for analog-like sweeps. Sine and square outputs, frequency and level sweeps, and source impedance 10 ohm to 640 ohm support electroacoustics, filters, and ALC tests. Distortion is below 0.05 percent to 20 kHz and below 0.1 percent to 100 kHz.



MODEL

Rohde & Schwarz APN62

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

APN62

LISTING

<https://aumictechlabs.com/products/apn62-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz APN62 is a synthesized audio frequency generator delivering precise signal generation across 1 Hz to 260 kHz with crystal accuracy and phase-continuous tuning. Output ranges from 50 μ V to 20 Vrms with adjustable source impedance (10 Ω to 640 Ω), supporting balanced floating, balanced grounded, and unbalanced grounded configurations. The integrated output transformer spans 20 Hz to 25 kHz into 2 k Ω . Distortion remains below 0.05% across the audio band to 20 kHz and below 0.1% to 100 kHz, with typical performance of -80 dBc to 20 kHz. Frequency resolution reaches 0.1 Hz up to 20 kHz, then 1 Hz to 260 kHz. The APN62 generates sine, square, triangle, and sawtooth waveforms with independent sweep functions - frequency sweep, level sweep over 20 dB, and linear or logarithmic modes. Output levels display in V, dBV, dBu, or dBm with ± 1.0 dB flatness and <1.2 dB attenuator error.

Technical Specifications

Frequency & Signal Generation Frequency range: 1 Hz to 260 kHz Frequency resolution: 0.1 Hz to 20 kHz; 1 Hz from 20 kHz to 260 kHz Digital synthesis with crystal accuracy Phase-continuous, transient-free adjustments Output Level range: 50 μ V to 20 Vrms (100 μ V to 30 V into 2 k Ω) Level resolution: 10 μ V or 0.1 dB minimum Source impedance: 10 Ω to 640 Ω (5 Ω steps) Output transformer: 20 Hz to 25 kHz / 2 k Ω Configurations: balanced floating, balanced grounded, unbalanced grounded Performance THD: <0.05% to 20 kHz; <0.1% to 100 kHz; typical -80 dBc to 20 kHz Frequency response: < ± 1.0 dB Attenuator error: <1.2 dB Waveforms & Sweep Sine, square, triangle, sawtooth Frequency sweep and 20 dB level sweep (linear or logarithmic)

Key Features

Remote control via IEEE 488 (HP-IB) Option APN-B1: reference-frequency synchronization and frequency/level tracking output Dimensions: 435 mm $\times$ 103 mm $\times$ 350 mm; 7.5 kg Power: 94–127 V, 188–265 V; 45–440 Hz Operating temperature: 0 to 55 $^{\circ}$ C Safety class I to VDE 0411 (IEC 348) Shock tested to DIN 40046 part 7 (30 g); vibration tested to DIN 40046 part 8 (5–55 Hz, 2 g)

Typical Applications Audio equipment testing, precision signal measurement, research and development, quality control, and laboratory measurement environments requiring low-distortion signals and flexible output impedance matching.

Compatibility & Integration Full remote operation via IEEE 488 interface. Optional synchronization module enables external reference locking and analog tracking outputs proportional to frequency or level.

Features & description

From manufacturer datasheet

Features

- APN family: APN02 generator; APN04 adds voltmeter and IEEE; APN06 adds square and IEEE; APN62 adds transformer
- Output level 50 μ V to 20 V class without external attenuators
- Level units V, dBV, dBu, dBm
- Option APN-B1 reference I/O and analog frequency/level proportional voltage
- IEC 625-1 / IEEE 488 remote (APN06/62 class)

Applications

- Audio and electroacoustic stimulus to 260 kHz
- Crystal-filter and steep-skirt measurements (phase-continuous tuning)
- Tone-sequence generation to known standards (0.1 Hz resolution)
- Amplifier linearity and ALC dynamic tests (20 dB non-interrupting level sweep)
- Balanced/unbalanced audio benches with transformer output

APN62 Characteristics / Specifications

PARAMETER	VALUE
Model	APN62
Manufacturer	Rohde & Schwarz
Instrument Type	Synthesized audio frequency generator
Alias	APN 62; R&S APN62
Frequency Range	1 Hz to 260 kHz
Frequency Resolution Full Range	1 Hz
Frequency Resolution below 20 kHz	0.1 Hz
Synthesis	fully digital, crystal accuracy
Frequency Changes	phase-continuous, no transients
Waveforms	sine and square (1 Hz to 260 kHz, variable level)
Output Transformer	20 Hz to 25 kHz, 2 kohm
Source Impedance	10 ohm to 640 ohm, adjustable
Output Level Class	50 μ V to 20 V
Level Sweep	20 dB without interruption; selectable start/stop/step/time
Level Units	V, dBV, dBu, dBm
Distortion to 20 kHz	less than 0.05 percent
Distortion to 100 kHz	less than 0.1 percent
Sweep Types	frequency sweep and level sweep
Remote Interface	IEC 625-1 and IEEE 488 (APN06/62 class)
Sibling APN	APN02 plus square and IEEE (electrical twin of APN62 except transformer/mains)
Form Factor	benchtop audio generator
Intended DUTs	filters, amplifiers, ALC, electroacoustics
Supply	AC ranges differ from APN06 (transformer model)
Square Frequency Range	1 Hz to 260 kHz

PARAMETER	VALUE
Minimum Level	low enough for practical audio without external pads Notes Specs from R&S APN family literature describing APN62 as an APN06 with output transformer (20 Hz to 25 kHz / 2 kohm) and different mains ranges. Confirm transformer path versus direct output and APN-B1. Do not confuse with later AM300 arbitrary generators.
APN family	APN02 generator; APN04 adds voltmeter and IEEE; APN06 adds square and IEEE; APN62 adds transformer

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications match APN06. Digital synthesis provides crystal accuracy, 1 Hz resolution (0.1 Hz below 20 kHz), and phase-continuous frequency changes for analog-like sweeps. Sine and square outputs, frequency and level sweeps, and source impedance 10 ohm to 640 ohm support electroacoustics, filters, and ALC tests. Distortion is below 0.05 percent to 20 kHz and below 0.1 percent to 100 kHz.

Applications

- Audio and electroacoustic stimulus to 260 kHz
- Crystal-filter and steep-skirt measurements (phase-continuous tuning)
- Tone-sequence generation to known standards (0.1 Hz resolution)
- Amplifier linearity and ALC dynamic tests (20 dB non-interrupting level sweep)
- Balanced/unbalanced audio benches with transformer output

Key Features

- APN family: APN02 generator; APN04 adds voltmeter and IEEE; APN06 adds square and IEEE; APN62 adds transformer
- Output level 50 μ V to 20 V class without external attenuators
- Level units V, dBV, dBu, dBm
- Option APN-B1 reference I/O and analog frequency/level proportional voltage
- IEC 625-1 / IEEE 488 remote (APN06/62 class)

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Frequency Resolution Full Range	1 Hz
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Synthesis	fully digital, crystal accuracy
Frequency Changes	phase-continuous, no transients
Waveforms	sine and square (1 Hz to 260 kHz, variable level)
Output Transformer	20 Hz to 25 kHz, 2 kohm
Source Impedance	10 ohm to 640 ohm, adjustable
Output Level Class	50 μ V to 20 V
Level Sweep	20 dB without interruption; selectable start/stop/step/time
Level Units	V, dBV, dBu, dBm
Distortion to 20 kHz	less than 0.05 percent
Distortion to 100 kHz	less than 0.1 percent

PARAMETER	VALUE
Sweep Types	frequency sweep and level sweep
Remote Interface	IEC 625-1 and IEEE 488 (APN06/62 class)

Option APN B1: reference frequency I/O and proportional analog output

Specifications

PARAMETER	VALUE
Sibling APN02	1 Hz to 260 kHz, balanced floating/grounded/unbalanced, no IEEE
Sibling APN04	APN02 plus voltmeter and IEEE
Sibling APN06	APN02 plus square and IEEE (electrical twin of APN62 except transformer/mains)
Form Factor	benchtop audio generator
Intended DUTs	filters, amplifiers, ALC, electroacoustics
Supply	AC ranges differ from APN06 (transformer model)
Square Frequency Range	1 Hz to 260 kHz
Minimum Level	low enough for practical audio without external pads

Notes
Specs from R&S APN family literature describing APN62 as an APN06 with output transformer (20 Hz to 25 kHz / 2 kohm) and different mains ranges. Confirm transformer path versus direct output and APN-B1. Do not confuse with later AM300 arbitrary generators.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.