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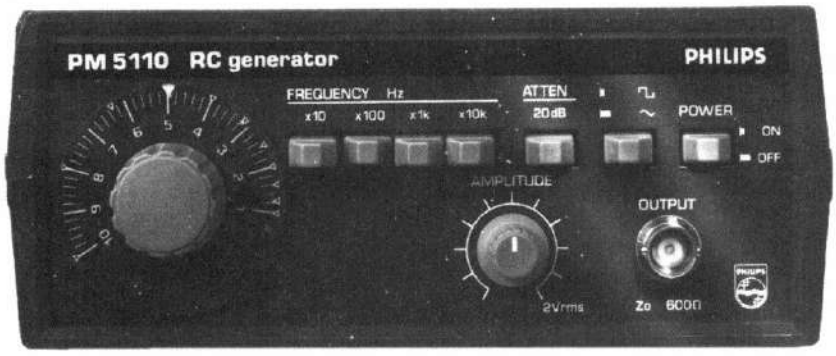
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PM 5110



PM 5110

PM 5110 Function Generator

- Sine and square wave signals
- Frequency range 10 Hz to 100 kHz
- 6V p-p output and separate TTL output
- Very low 0.02% distortion
- Attention switchable between fixed (20 dB) and variable (40 dB)
- Compact dimensions and low weight

The PM 5110 meets the need for a compact, economical low frequency signal generator with an outstanding low distortion down to only 0.02%. It provides a choice of sine wave and square wave outputs from a front-panel BNC connector, and also includes an additional rear-mounted TTL output, making it a versatile instrument for use in education and training. Further, its very low distortion rating makes it an ideal high-purity signal source for laboratory and service use, particularly in audio-related applications.

Signal amplitude is a maximum of 6V p-p for sine waves, and 4V p-p for square waves. Attenuation is continuouly variable from 0 dB to 40 dB at a constant 600Ω impedance; alternatively, a fixed attenuation of 20 dB can be selected to sim- ulate outputs from recorders and other equipment.

Operation is simple, thanks to the PM 5110's functional layout. A single dial adjusts frequency, with range multiplier pushbuttons giving an accuracy of better than 4%. Also, the generator weighs only 1 kg, and is very compact in size.

Specifications

Technical Specifications

Frequency and Characteristics

Nominal Range: 10 Hz to 100 kHz (4 subranges, selectable by pushbuttons)
Indication: Dial (1 to 10) LED marker
Setting Error: <4% ±1 Hz
Temperature Coefficient: <0.05%/K (1 kHz)
Long-Term Drift: (<7h) <1.5 x 10^{-3} (1 kHz)
Duty Cycle: 50% fixed

Waveforms

Sine wave
Square wave

Output

Attenuation: 20 dB (±0.2 dB) calibrated step plus 40 dB continuously adjustable
Impedance: 600Ω
Short-Circuit Proof: Yes

Sine Wave

Low Distortion Mode: Total harmonic distortion 0.02% at 1 kHz; 0.03% (300 Hz to 20 kHz)
Fast Settling Mode: Total harmonic distortion 0.5% (300 Hz to 20 kHz); 0.7% (10 Hz to 100 kHz)
Max Open Circuit Voltage: 2V rms
Frequency Response of Amplitude: <2% (1 kHz)

Square Wave

(fast settling mode only)
Max Open Circuit Voltage: 4V p-p
Rise and Fall Time: <0.5 µs
Sag: <1% (50 Hz)
Duty Cycle: 50%
Overshoot and Ripple: <1.5%

TTL

Amplitude, High Level: 4.5V ±0.7V
Amplitude, Low Level: <0.3V
Sag: <1%
Frequency Response: 3% (1000 Hz)
Rise Time: <30 ns
Fall Time: <15 ns
Fan Out: 10 TTL inputs

General Specifications

Power Requirements

Voltage: 115V, 230V ±15%
Power Consumption: 4W
Frequency: 50/60 Hz ±5%

Operating Conditions

Reference Value: +23°C ±1°C
Nominal Working Range: +5°C to +40°C
Limits of Storage and Transportation: -40°C to +70°C

Mechanical Specifications

Size: 155 mm W x 65 mm H x 180 mm L (9 in W x 4.3 in H x 8.3 in L)
Weight: 1.1 kg (2.4 lb)

Included with Instrument: Instruction manual, power cable, serialized and dated certificate of calibration

Ordering Information

Model

PM 5110 Low Distorion LF Generator

Accessories

PM 9075 Cable BNC-BNC

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