

2MHz AM/FM Signal Generator



Features

- ★ 0.2 Hz to 2 MHz Frequency Output in 8 Ranges.
- ★ Versatile Waveforms: Sine, Square, Triangle, Ramp, Pulse and DC outputs.
- ★ Standard AM, Balance AM, FM, ASK, FSK, PWM Modulation and Sweep Mode.
- ★ Internal / External Modulation.
- ★ 20 Vp-p Output Level.
- ★ 60dB Attenuation.
- ★ Variable DC Offset Control.
- ★ Low Distortion for Sine Waveform 1% typically.
- ★ Variable Symmetry for Generating Sawtooth and Pulse Waveforms.
- ★ 4 Digits Display.
- ★ Dedicated Auxillary Function Generator upto 20KHz.

Specifications

Output Characteristics

Output Waveform	: Sine, Triangle, Square, Ramp, Pulse, AM Balance, AM Standard, FM, ASK, FSK, PWM Sweep and DC.
Output Level	: 20Vp-p in Open Circuit, 10Vp-p in 50Ω Load.
Output Attenuator	: 20, 40dB ±1dB and 20dB continuously variable.
Output Impedance	: 50Ω ±5%.
DC Offset	: ±10V. (DC ± AC peak) into Open Circuit. ±5V. (DC ± AC peak) into 50Ω Load.

Frequency Characteristics

Range	: 0.02Hz to 2MHz in 8 Ranges.
Indication Accuracy	: ±0.1%, +1 Digit.

Waveform Characteristics

Square Rise & Fall Time	: ≤50ns.
Symmetry / Duty Cycle	: 15% to 85% variable.
Triangle wave Non-Linearity	: ±0.5% (typically at 1KHz).
Sinewave Distortion	: <1% (Typically).
Amplitude Flatness	: ±2%.

Sweep Characteristics

Sweep Type	: Linear.
Sweep Range	: 25 : 1.
Sweep Rate	: 20msec to 4sec variable.

Modulation Characteristics

Auxillary Function Generator for Int. Modulation

Waveforms : Sine, Square, Triangle.
Frequency Range : 2Hz to 20KHz.
Output Level : 10Vp-p.

Amplitude Modulation

Mode : Standard / Balance.
Carrier Freq. B.W : Upto 1MHz.
Int. Mod. Freq. : 2Hz to 20KHz..
Int. Mod. Index : 30% to 100%.
Ext Modulation : 100% for 2Vp-p.
Ext. Mod. Freq. : DC to 20KHz.

Frequency Modulation

Deviation : 0 to 10% of the range.
Ext Modulation : 10% for 2Vp-p.
Ext. Mod. Freq. : DC to 20KHz.

Frequency Counter

Mode : MAIN / AUX Generator.
Display : 4 Digits Display.
Freq. Range : 0.2Hz to 2MHz.
Display Accuracy : $\pm 0.1\%$ + 1Digit.

General

Power Requirement : 230V $\pm 10V$, 50Hz AC Supply.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

Aplab Test & Measurement Instruments

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