TEKTRONIX

AFG5101

The Tektronix AFG5101 is a programmable, 3-wide plug-in Arbitrary Function Generator designed for use with the TM 500 and TM 5000 series mainframes. It features standard waveforms up to 12 MHz, arbitrary waveform capability, AM/FM modulation, and various sweep and trigger modes.

SPECIFICATIONS

General

Interfaces	GPIB (via TM 5000 mainframe backplane)

Physical

Power Supply	Draws power from TM 5000 series mainframe

Channel Characteristics

Number of Channels	1

Waveform Generation

Standard Waveforms	Ramp, Sine, Square, Triangle
Predefined Waveforms	5 predefined 1000-point waveforms
Non-Volatile Memory	2 non-volatile, 8K waveform memories
Waveform Buffer	Fast waveform execution buffer

Frequency Specifications

Minimum Frequency	0.012 Hz
Maximum Frequency (Sine)	12 MHz
Maximum Frequency (Square)	12 MHz

Amplitude and Output Characteristics

Minimum Output Voltage	10 mV
Maximum Output Voltage	9.99 V
Output Accuracy	2%
Output Impedance	50 Ω

Modulation, Sweep, and Burst

Modulation Types	AM, FM

Physical and Environmental

Form Factor	3-wide plug-in module

Arbitrary Performance

Vertical Resolution	12 bits
Sampling Clock Range	0.1 Hz to 12 MHz

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