TEKTRONIX

CG5011

The Tektronix CG5011 is a programmable calibration generator designed for the TM 5000 series mainframe system. It is specifically engineered for the precise calibration of modern oscilloscopes, providing high-accuracy voltage, time-mark, and leveled sine wave signals, as well as extremely fast pulse transitions using specialized remote heads.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
Display	LED

Physical

Power Supply	Powered via TM 5000 series mainframe
Operating Temperature	0 to +50 °C °C

Amplitude and Output Power

Voltage Range (1 MΩ Load)	40 µV to 200 V
Voltage Range (50 Ω Load)	40 µV to 5 V
DC Voltage Accuracy	±(0.05% of setting + 5 µV) (1 MΩ load)
Amplitude Resolution	4 digits
Square Wave Frequency	1 kHz
Leveled Sine Wave Amplitude Range	40 µV to 5.5 V p-p

Frequency Characteristics

Marker Range	1 ns to 5 s
Marker Sequence	1-2-5 sequence
Leveled Sine Wave Frequency Range	10 Hz to 110 MHz
Fast Edge Frequency Range	100 Hz to 1 MHz

Spectral Purity and Distortion

Rise Time (with Fast Edge Pulse Head)	≤ 150 ps

Power and Physical Specifications

Form Factor	TM 5000 Series 3-Wide Plug-in

Frequency Reference

External Reference Input	1 MHz, 5 MHz, or 10 MHz

Signal Outputs

Output Impedance	50 Ω
Trigger Output Amplitude	≥ 1 V into 50 Ω

Fast Edge Output

Fast Edge Amplitude	1 V (into 50 Ω)

Time Mark Generator

Time Marker Shapes	Pulse (10 ns to 5 s), Sine wave (1 ns to 5 ns)

Reference

Internal Reference Frequency	10 MHz
External Reference Input Frequency	1 MHz, 5 MHz, or 10 MHz

Deviation Mode

Deviation Range	±9.9% (0.01% resolution)

TECHNOLOGY

Calibration Signal Generation

APPLICATIONS

Oscilloscope Calibration and Verification

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.