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Data Sheet

August 14, 2026

FLUKE

Fluke PM6680 High Resolution Timer/Counter

The Fluke/Philips PM6680 is a high-resolution reciprocal timer/counter with DC to 225 MHz inputs on channels A and B and optional C-channel prescalers to 1.3, 2.7, or about 4.2 GHz. It delivers 10 digits per second class resolution with extensive totalize and statistics features on later revisions. Frequency burst profiling, time-interval and pulse-width timing, phase and duty-factor measurements, and GPIB automated counting. Channel A Frequency Range DC Coupled: DC to 225 MHz Channel A Frequency Range AC Coupled: 10 Hz to 225 MHz Time Interval Resolution Single Shot Class: 250 to 350 ps Time Interval Resolution Averaged Class: to 1 ps on high-end family sheets Measurement Functions: Frequency Period Time Interval Pulse Width Rise Fall Phase Duty Factor Totalize Peak Voltmeter Class: 4 digit 120 MHz on PM6680B literature



MODEL

Fluke PM6680

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM6680

LISTING

<https://aumictechlabs.com/products/pm6680-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke PM6680 is a sophisticated frequency counter renowned for its precision and versatility. This instrument offers a wide frequency range, typically extending from DC to several GHz, and has high sensitivity to capture even weak signals. Its measurement capabilities include frequency, period, pulse width, and duty cycle. The PM6680 is equipped with a high-stability time base,

ensuring accurate and repeatable measurements. Its user-friendly interface and comprehensive features make it an excellent choice for professionals requiring precise frequency analysis.

Features & description

From manufacturer datasheet

Built-in peak reading voltmeter onBclass

GPIB programmable options Technical Specifications ChannelA Frequency Range DC Coupled: DC to 225 MHz ChannelA Frequency Range AC Coupled: 10 Hz to 225 MHz ChannelB Frequency Range Class: DC to 225 MHz Optional ChannelC Example Low: 100 MHz to 1.3 GHz Optional ChannelC Example Mid: to 2.7 GHz Optional ChannelC Example High: to 4.2 GHz class Frequency Resolution Class: 10 digits per second Sensitivity Class: 20 mV rms Time Interval Resolution Single Shot Class: 250 to 350 ps Time Interval Resolution Averaged Class: to 1 ps on high-end family sheets Input Coupling: AC or DC Rise Time Class: about 1.5 ns Measurement Functions: Frequency Period Time Interval Pulse Width Rise Fall Phase Duty Factor Totalize Peak Voltmeter Class: 4 digit 120 MHz on PM6680B literature Remote Interface: Optional GPIB Form Factor: Benchtop timer counter Channel Count: 2 standard optional 3 Timebase Options: TCXO and oven grades Readings to Memory Class: up to 2000 readings/s on related PM6681 literature Statistics: Jitter modulation and transient analysis aids Operating Temperature Class: Laboratory Power: AC line Totalize Modes onB Class: up to 8 modes including up/down Notes Base 225 MHz A/B ratings and optional C-channel ceilings from Fluke/Philips PM6680 / PM6680B literature.

PM6680 Characteristics / Specifications

PARAMETER	VALUE
ChannelA Frequency Range DC Coupled	DC to 225 MHz
ChannelA Frequency Range AC Coupled	10 Hz to 225 MHz
ChannelB Frequency Range Class	DC to 225 MHz
Frequency Resolution Class	10 digits per second
Sensitivity Class	20 mV rms
Time Interval Resolution Single Shot Class	250 to 350 ps
Time Interval Resolution Averaged Class	to 1 ps on high-end family sheets
Input Coupling	AC or DC
Rise Time Class	about 1.5 ns
Measurement Functions	Frequency Period Time Interval Pulse Width Rise Fall Phase Duty Factor Totalize
Peak Voltmeter Class	4 digit 120 MHz on PM6680B literature
Remote Interface	Optional GPIB
Form Factor	Benchtop timer counter
Channel Count	2 standard optional 3
Timebase Options	TCXO and oven grades
Readings to Memory Class	up to 2000 readings/s on related PM6681 literature
Statistics	Jitter modulation and transient analysis aids
Operating Temperature Class	Laboratory
Power	AC line
Totalize Modes on B Class	up to 8 modes including up/down
Rise Time	Class: about 1.5 ns
Operating temperature	Class: Laboratory

PM6680 Specifications

PARAMETER	VALUE
Fluke Philips PM6680 Timer Counter	Overview
Applications	Frequency burst profiling, time-interval and pulse-width timing, phase and duty-factor measurements, and GPIB automated counting.
Technical Specifications	Channel A Frequency Range DC Coupled: DC to 225 MHz
Notes	Base 225 MHz A/B ratings and optional C-channel ceilings from Fluke/Philips PM6680 / PM6680B literature.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory
Operating Temperature	Class: Laboratory
Operating Temperature Class	Laboratory
Power	AC line
Totalize Modes onBClass	up to 8 modes including up/down Notes Base 225 MHz A/B ratings and optional C-channel ceilings from Fluke/Philips PM6680 / PM6680B literature.

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	
Specifications	
PARAMETER	VALUE
ChannelAFrequency Range DC Coupled	DC to 225 MHz
ChannelAFrequency Range AC Coupled	10 Hz to 225 MHz
ChannelBFrequency Range Class	DC to 225 MHz
Optional ChannelCExample Low: 100 MHz to 1.3 GHz	
Optional ChannelCExample Mid: to 2.7 GHz	
Optional ChannelCExample High: to 4.2 GHz class	
Specifications	
PARAMETER	VALUE
Frequency Resolution Class	10 digits per second
Sensitivity Class	20 mV rms
Time Interval Resolution Single Shot Class	250 to 350 ps
Time Interval Resolution Averaged Class	to 1 ps on high-end family sheets
Input Coupling	AC or DC
Rise Time Class	about 1.5 ns
Measurement Functions	Frequency Period Time Interval Pulse Width Rise Fall Phase Duty Factor Totalize
Peak Voltmeter Class	4 digit 120 MHz on PM6680B literature
Remote Interface	Optional GPIB
Form Factor	Benchtop timer counter
Channel Count	2 standard optional 3
Timebase Options	TCX0 and oven grades
Readings to Memory Class	up to 2000 readings/s on related PM6681 literature
Statistics	Jitter modulation and transient analysis aids
Operating Temperature Class	Laboratory
Power	AC line
Totalize Modes onBClass	up to 8 modes including up/down

Notes

Base 225 MHz A/B ratings and optional C-channel ceilings from Fluke/Philips PM6680 / PM6680B literature.

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 ·
30-day returns
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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.