

# Frequency counters

## HM8123 3 GHz Universal Counter



### Key facts

- Measurement range: DC to 3 GHz
  - Input A/B (BNC): DC to 200 MHz
  - Input C (SMA): 100 MHz to 3 GHz
- Input impedance
  - Input A/B: 50 Ω or 1 MΩ (switchable), sensitivity 25 mV
  - Input C: 50 Ω, sensitivity 30 mV
- 10-digit resolution (at 10 s gate time)
- Nine measurement functions, external GATE and ARMING connectors (BNC)
- External reference input/output (10 MHz) via BNC connector
- HM8123: TCXO (temperature stability:  $\pm 0.5 \times 10^{-6}$ ), HM8123-X: OCXO (temperature stability:  $\pm 1.0 \times 10^{-8}$ )
- RS-232/USB dual interface, optionally IEEE-488 (GPIB)
- Fanless design

### Models/options

Designation	Type
3 GHz Universal Counter	HM8123
3 GHz Universal Counter, OCXO (temperature stability: $\pm 1.0 \times 10^{-8}$ )	HM8123-X
Test Cable BNC/BNC	HZ33, HZ34
19" Rackmount Kit, 2 HU	HZ42
Adapter, BNC to 4 mm banana	HZ20
IEEE-488 (GPIB) Interface, galvanically isolated	HO880

### Application

Analog RF circuit design

### How the HAMEG HM8123 meets your needs

- High sensitivity and frequency range up to 3 GHz
- 10-digit resolution for precise measurement results
- Optional OCXO for even higher accuracy

Development of clock and clock distribution systems

- Interchannel measurements: frequency/period/time interval/phase A:B
- Burst measurements

Education and service

- Fast boot time
- Easy-to-use operation