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# M207 Precision Oscillator

The M207 is a precision oscillator source that provides a highly accurate and stable clock reference that can be used as a frequency or time reference. Using selectable switches, the output of the on-board ovenized oscillator can be output as is or be divided by any value from 2 to 16383. The resulting output can be directed to a front SMA connector and/or to either or both of the M-Module triggers. The output can be a 100ns pulse or a square wave.

## Specifications:

**Ovenized Oscillator:**

| | |
|---|---|
| Nominal Frequency: | 10MHz |
| Stability (Freq. vs. Temp) | ±0.01ppm |
| Aging (Freq. vs. Time) | |
| 1st year | ±0.1ppm |
| 10 years | ±1.0ppm |
| Cal. (Freq. vs. Control) | ±1.0ppm |
| Warm Up (Freq. Ref. to 1 hr.) | |
| 5 minutes | ±0.1ppm |
| 30 minutes | ±0.01ppm |

Front panel accessible calibration 25-turn potentiometer provided for 10 year adjustability.

**Pulse Output: (front panel)**

| | |
|---|---|
| High, $I_{OH}$ = -24mA | 3.76V min. |
| Low, $I_{OL}$ = 24mA | 0.44V max. |
| Source/Sink | ±50mA |
| Rise/Fall (0.8 to 2.0V) | 1.5ns |
| Impedance (selectable) | 3 or 50Ω |

**Pulse Width**: 100ns*

* Pulse width is 50% of period when "Square Wave Output" or "No divide" output is selected.

**Outputs:**

- Front Panel
- M-Module Trig A
- M-Module Trig B

**Switch Controls:**

- Divide-by-N Value (3 to 16383)
- Clock Out Select
  - Square Wave Output (N ÷ 2)
  - Divide-By-2
  - No divide (10MHz output)
  - Divide-By-N
- M-Trigger A/B Output Enable
- Front Panel Output Enable
- Front Panel Output Impedance

**Front Panel Connector:** SMA

**Temperature:**

| | |
|---|---|
| Operating: | 0°C to 50°C |
| Storage: | -40°C to 70°C |

**Power:**

| | |
|---|---|
| +5V (during warm-up) | 500mA |
| +5V (after warm-up) | 250mA |

## M Module Compliance

Complies with ANSI/VITA Std. 12-1996 for single-wide M-Modules; however, the module does require or support data transfers.

Compatible with VXI, VME, PCI, cPCI and other M Module carriers.

## Applications

- Frequency or Time Reference
- M-Module Triggering
- Synchronization of data acquisition hardware

## Ordering Information

**Part Number** 11028610-0001

## Additional Information

User Manuals for C&H carriers and this module can be found on our website at www.chtech.com.

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