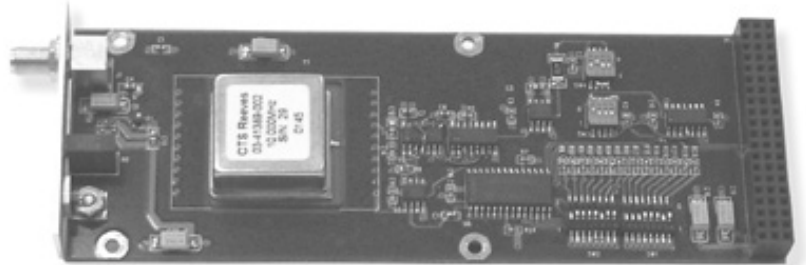


Precision Oscillator Model M207

This product is manufactured by C&H Technologies, Inc. and exclusively distributed by Racal Instruments, Inc.

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 panel SMA connector and/or to either or both of the M-Module triggers. The output can be a 100 ns pulse or a square wave.



SPECIFICATIONS

Ovenized Oscillator

Nominal Frequency:
10 MHz
Stability (Freq. Vs. Temp)
 ± 0.01 ppm
Aging (Freq. Vs. Time)
1st year: ± 0.1 ppm
10 years: ± 1.0 ppm
Cal. (Freq vs. Control)
 ± 1.0 ppm
Warm Up (Freq. Ref. To 1 hr.)
5 minutes: ± 0.1 ppm
30 minutes: ± 0.1 ppm
Front panel accessible calibration
25-turn potentiometer provided
for 10 year adjustability.

Pulse Output (front panel)

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

Pulse Width

100 ns*
*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 ($N \div 2$)
Divide-By-2
No divide (10 MHz 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

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

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