Racal Instruments

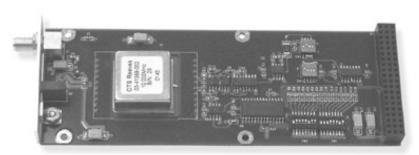
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Precision Oscillator Model M207

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.

PRODUCT INFORMATION

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



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, 1 $_{\rm OH}$ = -24 mÅ 3.76 V min. Low, 1 $_{\rm OL}$ = 24 mÅ 0.44 V max. Source/Sink ± 50 mÅ 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 ÷ 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



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INSTRUME

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