



# MICROMODULE OUTPUT P.C.A. CATALOG #: 62139-M( )P( )

## CATALOG NO.

CONFIGURATION CODE: 62139-M( )P( )

**Generic Part Number  
Output Range Parameter (See Below)**

**Indicates Factory Type Pre-Calibration (Nominal Zero & Span)  
No "P"# Indicates 'NOT ORDERED'**

**GENERAL DESCRIPTION:** The McNab Micromodule Output Board, Catalog #: 62139-M( )P( ), is a member of McNab's modular, solid-state (electronic) micromodules. The device offers high sensitivity with exceptional operational and temperature stability.

**APPLICATION:** The Micromodule Output Board may be used in electronic systems where an output analog meter signal is required from given input control signals. The device may also be used in applications where frequency to voltage conversion is the primary consideration.

## SPECIFICATIONS:

Input Zero Frequency:	640uSec (Typical)
Input Signal Range (Typ):	640uSec +/-100uSec
Reference Voltage (Vref):	-2.49 VDC
Reference Voltage Adjust:	Screwdriver adj, +/- 30% of Vref
Zero Control:	Screwdriver adjustable, 50% of F.S.
Span Control:	Screwdriver adjustable, 50% of F.S.
Output Parameters:	
No "M" Number= (No Span Ctl)	-1VDC to +1VDC
M15698=	-5VDC to +5VDC
M17831=	-0.5mADC to +0.5mADC (@ TP2)
M20637=	0.0VDC to +10VDC
Signal To Noise Ratio:	Better than 40 dB
Repeatability:	0.01% of Full Scale
Linearity:	0.1% of Full Scale
Accuracy:	+/- 0.5% of Full Scale
Power Requirements:	+/-6.0 VDC, (M20637=+12.0)
Power Dissipation:	300 mW (Maximum)
Power supply Current:	15.0 mA (Maximum)
Input Impedance:	1000 kOhms
Output Impedance:	1 Ohm
Weight:	5 oz. (Maximum)
Temperature Range:	14°F to 149°F (Operating)
Interface:	12 pin friction lock socket

## NOTES:

- 1- When "P" is ordered, PCA will be factory calibrated to type class nominal ZERO and typical SPAN (+/-3%) FS.
- 2- This SYSTEM typically will not read "ZERO" when shaft is at rest.
- 3- Customer to calibrate SYSTEM ZERO by "rolling torque" method at dockside or "drag shaft" method at sea and still will not read zero at rest.
- 4- Electrical calibration of SPAN is then required to meet full-scale output parameter.
- 5- To verify PCA "function," use McNab Field Test Fixture: PN500352.in accordance with McNab Test Procedure: PN52042.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## McNAB, INCORPORATED

20 North MacQuesten Parkway ♦ Mount Vernon, NY 10550 USA

Phone: 914-699-1616 ♦ Fax: 914-699-1671

Web: [www.themcnab.com](http://www.themcnab.com) ♦ E-mail: [info@themcnab.com](mailto:info@themcnab.com)

FAMILY: 62000

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