

Model Number
740M06

CHARGE OUTPUT UNIAXIAL STRAIN SENSOR

Revision: F
ECN #: 12418

DYNAMIC PERFORMANCE

Charge Sensitivity	pC/με	2	(±30%) [1]
Amplitude Range	pk με	900	
Amplitude Linearity	%	≤±1.5	[2]
Transverse Sensitivity	%	≤±5	[3]

ENVIRONMENTAL

Operating Temperature Range	°F [°C]	-65 to +300 [-53 to +148]	
Shock Limit	±g pk [±ms ⁻² pk]	10,000 [98,000]	
Acceleration Sensitivity	με/g [με/(ms ⁻²)]	0.001 [0,0001]	[3] [5]

ELECTRICAL

Capacitance	pF	315	[3] [4]
Insulation Resistance (at 70°F [21°C])	ohms	≥10 ¹²	

MECHANICAL

Sensing Element	material	Quartz	
Housing	material	Titanium	
Size (W x L x H)	in [mm]	0.2 x 0.6 x 0.7 [5,1 x 15,2 x 1,8]	
Weight	oz [gm]	0.02 [0,5]	[3]
Electrical Connector	type	10-32 Coaxial	
Mounting	type	Adhesive	
Cable (standard 10 ft length supplied)	type	030AD010EJ Integral Coaxial	
Sealing	type	Epoxy	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted by the letter prefixes below. More than one option may be used.

-None-

NOTES:

- [1] Calibrated on steel bar.
- [2] Zero-based, least-squares, straight line method.
- [3] Typical.
- [4] Based on 10 ft cable. Will vary based on cable length. Typical cable capacitance is 30 pF/ft.
- [5] Measured perpendicular to sensing axis.

SUPPLIED ACCESSORIES:

Model 080A90 Quick Bond Gel
Model 039A07 Removal Tool

All specifications are at room temperature unless otherwise specified.

ICP® is a registered trademark of PCB Piezotronics, Inc.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

Drawn:	Engineer:	Sales:	Approved:	Spec Number:
Date:	Date:	Date:	Date:	8095



3425 Walden Avenue, Depew, NY 14043

800-828-8840

Fax (716) 684-0987

E-Mail: sales@pcb.com