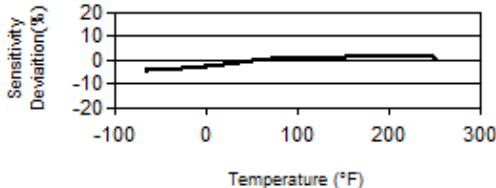


Model Number 639A91		TRIAXIAL ICP® ACCELEROMETER			Revision: A ECN #: 47242	
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Sensitivity(± 10 %)		100 mV/g	10.2 mV/(m/s²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
Measurement Range		± 50 g pk	± 491 m/s² pk	EX - Hazardous Area Approval- contact factory for specific approvals		
Frequency Range(± 5 %)		1.5 to 5500 Hz	1.5 to 5500 Hz	M - Metric Mount		
Frequency Range(± 3 dB)		0.5 to 13 kHz	0.5 to 13 kHz	Supplied Accessory : Model M081A119 Supplied Accessories: M081A119 mounting bolt replaces 081A119		
Resonant Frequency		≥ 26 kHz	≥ 26 kHz			
Broadband Resolution(1 to 10,000 Hz)		300 mg	2943 mm/s² rms			
Non-Linearity		≤ 1 %	≤ 1 %			
Transverse Sensitivity		≤ 5 %	≤ 5 %			
Environmental						
Overload Limit(Shock)		± 5000 g pk	± 5000 g pk			
Temperature Range(Operating)		-65 to 250 °F	-54 to 121 °C			
Temperature Response		See Graph	See Graph	[1]		
Electrical						
Excitation Voltage		18 to 30 VDC	18 to 30 VDC			
Constant Current Excitation		2 to 20 mA	2 to 20 mA			
Output Impedance		≤ 150 Ohm	≤ 150 Ohm			
Output Bias Voltage		8 to 12 VDC	8 to 12 VDC			
Discharge Time Constant		≥ .32 sec	≥ .32 sec			
Settling Time(within 10% of bias)		<2 sec	<2 sec			
Spectral Noise(1 Hz)		90 µg/√Hz	883 (µm/sec²)/√Hz	[1][2]		
Spectral Noise(10 Hz)		20 µg/√Hz	196 (µm/sec²)/√Hz	[1][2]		
Spectral Noise(100 Hz)		10 µg/√Hz	98.1 (µm/sec²)/√Hz	[1][2]		
Spectral Noise(1 kHz)		3.0 µg/√Hz	29.4 (µm/sec²)/√Hz	[1][2]		
Electrical Isolation(Case)		≥ 10⁸ Ohm	≥ 10⁸ Ohm			
Physical						
Sensing Element		Ceramic	Ceramic			
Sensing Geometry		Shear	Shear			
Housing Material		Stainless Steel	Stainless Steel			
Sealing		Hermetic	Hermetic			
Size (Height x Length x Width)		.72 in x .95 in x .95 in	18.3 mm x 24.1 mm x 24.1 mm			
Weight(Maximum)		3.0 oz	85 gm			
Electrical Connector		4-Pin, M12	4-Pin, M12			
Electrical Connection Position		Side	Side			
Mounting		Through Hole	Through Hole			
Mounting Torque(Through Bolt)		2 to 5 ft-lb	2.7 to 6.8 N-cm			
Typical Sensitivity Deviation vs Temperature 						
 [4]						
<i>All specifications are at room temperature unless otherwise specified.</i> <i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i> ICP® is a registered trademark of PCB Group, Inc.						
SUPPLIED ACCESSORIES: Model 081A119 Captive mounting bolt 1/4-28 x .625" (1) Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)						
Entered: LK		Engineer: JJD		Sales: MC		
Date: 10/5/2017		Date: 10/5/2017		Date: 10/5/2017		
Approved: NJF		Spec Number:		64198		
 IMI SENSORS 3425 Walden Depew, NY 14043 UNITED STATES Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com Web site: http://www.imi-sensors.com						