

Model Number 3192A	PERFORMANCE SPECIFICATION	DOC NO PS3192A	
	SINGLE AXIS IEPE ACCELEROMETER		REV C, ECN 9493, 12/06/10



- HIGH SENSITIVITY
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

		ENGLISH		SI	
PHYSICAL					
Weight		6.65	oz	190.0	grams
Size	Hex x Height	1.125 x 2.25	Inches	28.57 x 57.15	mm
Connector	Туре	10SL-4P		10SL-4P	1
Mounting Provision : Tapped Hole		1/4-28 x .250 deep		1/4-28 x .250 deep	1
Material : Base, Cap and Connec		304L		304L	1
Element Style	Material	Ceramic		Ceramic	1
	Туре	Planar Shear		Planar Shear	
PERFORMANCE					
Sensitivity, ±5% [1]		1	V/g	0.10	V/m/s ²
Range F.S for ± 5 Volts Output		±5	g's	±49	m/s²
Frequency Range, ±5%		0.5 to 1000	Hz	0.5 to 1000	Hz
Resonant Frequency, Nominal		12	kHz	12	kHz
Equivalent Electrical Noise Floor		0.000036	grms	0.00035	m/s2 rms
Spectral Noise	1Hz	4.0	μgrms/v(Hz)	39.24	μm/s ² rms/v(Hz)
	10Hz	8.1	μgrms/√(Hz)	79.46	µm/s² rms/√(Hz)
	100Hz	0.5	μgrms/√(Hz)	4.91	µm/s² rms/√(Hz)
	1000Hz	0.36	μgrms/√(Hz)	3.53	μm/s ² rms/v(Hz)
Linearity [3]		± 2%	% F.S.	± 2%	% F.S.
Maximum Transverse sensitivity		5	%	5	%
Strain Sensitivity		0.005	g/με	0.05	m/s²/με
ENVIRONMENTAL					
Maximum Vibration		±50	gpeak	±490	m/s² peak
Maximum Shock		±100	gpeak	±981	m/s ² peak
Temperature Range		-60 to+250	°F	-51 to121	°Ċ
Seal, Hermetic		Glass-to-metal/Welded		Glass-to-metal/Welded	i
ELECTRICAL					
Supply Current Range [4]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+ 18 to +30	Volts	+18 to +30	Volts
Output Impedence, Typ		100	Ω	100	Ω
Bias Voltage		+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant		0.8 to 2.0	Sec	0.8 to 2.0	Sec
Output Signal Polarity for Acceler		Positive		Positive	1
Electrical Isolation, Case Ground	To Mounting Surface	10	GΩ, min	10	GΩ, min

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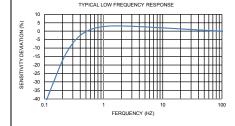
Model	Sensitivity (mV/g)	Range F.S ± 5 Volts (G's)	Max Vibration/Shock(± Gpeak)	Resonant Frequency (kHz)

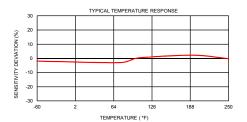
Please refer to the performance specifications of the products in this family for detailed description

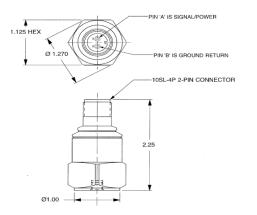
- Supplied Accessories:
 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6176 mounting stud, Qty 1

Notes:

- [1] Measure at 100Hz, 1 Grms per ISA RP 37.2
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range
- [3] Do not apply power to this system without current limting,20 mA MAX.To do so will destroy the
- IC charge amplifier







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3192A for more information.

