

Model Number DOC NO PERFORMANCE SPECIFICATIONS 3097A3 PS3097A3 IEPE ACCELEROMETER REV D, ECN 7642, 06/29/11



- MINIATURE SIZE
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

		ENGLIS	ENGLISH		SI	
PHYSICAL Weight Connector [1] Mounting Provision Material, Housing/Connecto Sensing Element Element Style	Type Tapped Hole r	0.15 10-32 5-40 UNC-2B TITANIUM CERAMIC PLANAR SHEAR	oz	4.3 10-32 5-40 UNC-2B TITANIUM CERAMIC PLANAR SHEAR	grams	
PERFORMANCE Sensitivity, ±5% [2] Range for ± 5 Volts Output Frequency Response, ±5%  Resonant Frequency Broad Band Resolution Spectral Noise  Linearity [2]	1Hz 10Hz 100Hz 1000Hz 1000HZ	500 10 0.3 to 5000 0.15 to 10,000 > 35 0.0003 0.00005 0.00001 0.00000 0.000002 0.000002	mV/G G peak Hz Hz kHz G rms Grms/v(Hz) Grms/v(Hz) Grms/v(Hz) Grms/v(Hz) W F.S.	51 98 0.3 to 5000 0.15 to 10,000 > 35 0.003 0.000 0.0001 0.00004 0.00002 0.00002 ±1	mV/m/s² m/s² Hz Hz kHz m/s² rms m/s² rms //(Hz) m/s² rms/v(Hz) m/s² rms/v(Hz) m/s² rms/v(Hz) m/s² rms/v(Hz) % F.S.	
Maximum Transverse sensi Strain Sensitivity @ 250με Phase Response ±5°	tivity	5 0.002 5 to 3000	% G/με Hz	5 0.02 5 to 3000	% m/s²/με Hz	
Maximum Vibration Maximum Shock Temperature Range Seal		200 5000 -60 to 150 HERMETIC	G peak G peak °F	1962 49050 -51 to 65 HERMETIC	m/s <sup>2</sup> peak m/s <sup>2</sup> peak °C	
ELECTRICAL Supply Current Range [3] Compliance Voltage Range Output Impedence, Typ Bias Voltage Discharge Time Constant		2 to 20 +18 to +30 100 +11 to +13 1.5 to 2.5	mA Volts Ω VDC Sec	2 to 20 +18 to +30 100 +11 to +13 1.5 to 2.5	mA Volts Ω VDC Sec	

This family also incl			

Model	Sensitivity (mV/g)	Frequency Response ±5%, (Hz)	Time Constant (Sec)	Operating Temp (°F)	
3097A1	10	0.3 to 5000	1.5 to 2.5	-60 to 200	
3097A2	100	0.3 to 5000	1.5 to 2.5	-60 to 180	

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

## Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6580 mounting stud (5-40 to 5-40), qty 1

## Notes:

- [1] Coaxial, 10-32 connector. Mates with Dytran cable Model 6010AXX or 6011AXX
- [2] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [3] Measure using zero-based straight line method, % of F.S. or any lesser range.
  [5] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
  [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.



