


Model Number 3099A6-XX		PERFORMANCE SPECIFICATION				DOC NO PS3099A6-XX		
		SHOCK ACCELEROMETER, IEPE				REV A, ECN 15957, 01/07/21		
		<ul style="list-style-type: none">• MECHANICALLY & ELECTRICALLY FILTERED• INTEGRAL CABLE W/ 10-32 CONNECTOR• CASE ISOLATED						
		ENGLISH		SI				
PHYSICAL Weight, Max. (Less Cable) Mounting Provision Integral Cable Connector Material Element Style		0.28		oz	8	grams		
		1/4-28 UNF-2A			1/4-28 UNF-2A			
		Twisted Pair, PTFE			Twisted Pair, PTFE			
		Coaxial 10-32 Plug			Coaxial 10-32 Plug			
		Titanium			Titanium			
Housing Material Type		Quartz			Quartz			
		Planar Shear			Planar Shear			
		ENGLISH		SI				
PERFORMANCE Sensitivity, ±20% [2] Measurement Range Frequency Range, ±3dB Resonant Frequency Linearity [3] Broadband Resolution Maximum Transverse Sensitivity Strain Sensitivity		0.1		mV/g	0.010	mV/m/s ²		
		±50,000		g pk	±490,500	m/s ² pk		
		10 to 10,000		Hz	10 to 10,000	Hz		
		Mechanical Filter Element		> 10.5	kHz	> 10.5	kHz	
				> 120	kHz	> 120	kHz	
				± 1	%	± 1	%	
				0.70	g RMS	6.87	m/s ² RMS	
		5		%	5	%		
		0.0005		g/με	0.0049	m/s ² /με		
		ENGLISH		SI				
ELECTRICAL Supply Current Range [4] Compliance Voltage Range Output Impedance, Typ. Output Bias Voltage Discharge Time Constant Warm up time (within 10% of Bias) Electrical Filter Ground Isolation		2 to 20		mA	2 to 20	mA		
		+18 to +30		VDC	+18 to +30	VDC		
		100		Ω	100	Ω		
		7.0 to 12.0		VDC	7.0 to 9.0	VDC		
		1.0 to 2.0		sec	1.0 to 2.0	sec		
		< 8		sec	< 8	sec		
		Two Pole			Two Pole			
Cutoff Frequency		7		kHz	7	kHz		
		>10		MΩ	>10	MΩ		
		ENGLISH		SI				
ENVIRONMENTAL Maximum Shock Temperature Range, Sensor Temperature Range, Integral Cable Coefficient of Thermal Sens. Seal		±100,000		g pk	±981,000	m/s ² pk		
		-10 to +250		°F	-12 to +121	°C		
		-76 to +392		°F	-60 to +200	°C		
		0.03		%F	0.05	%C		
		Hermetic			Hermetic			

This family also includes:

Model	Sensitivity (mV/g)	Measurement Range (g pk)	Maximum Shock (g pk)	Temperature (°F)
3099A5-XX	0.05	±60,000	±120,000	-10 to +250
3099A7-XX	0.2	±25,000	±50,000	-10 to +250

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

Supplied Accessories:

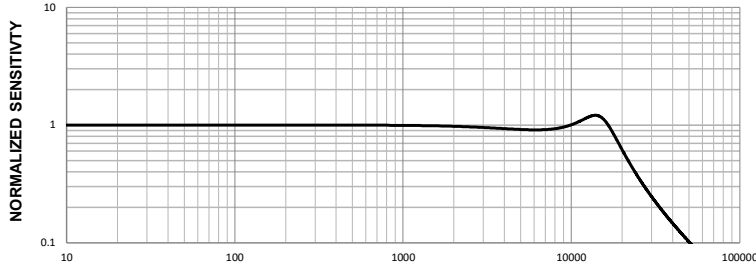
1) Accredited calibration certificate (ISO 17025)

Notes:

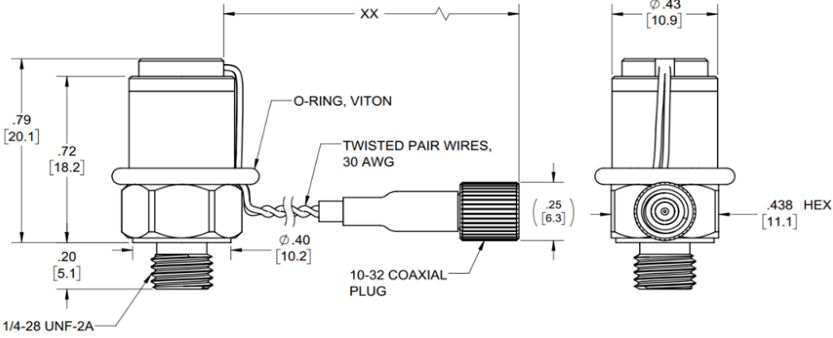
[1] All specifications are at room temperature unless otherwise specified.
[2] Measured at 100Hz, 10 g RMS per ISA RP 37.2
[3] Measured using zero-based straight line method, % of F.S. or any lesser range.
[4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC amplifier
[5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.


TYPICAL FREQUENCY RESPONSE



MECHANICAL DRAWING



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3099A5-XX for more information.



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