Model Number 629A32		ACCE	LEROMETER, I	NDUS	TRIAL, ICP®
Performance		ENGLISH	SI		Optional Versions
Sensitivity (±5 %)		500 mV/g	51 mV/(m/s²)	[3]	for standard model
Measurement Range		±10 g	±98 m/s <sup>2</sup>	[0]	LB - Low Bias Vol
Frequency Range (±5 %)		144 to 120000 cpm	2.4 to 2000 Hz	[4]	Output Bias Volta
Frequency Range (±10 %)		102 to 300000 cpm	1.7 to 5000 Hz		Excitation Voltage
Frequency Range		48 to 480000 cpm	0.8 to 8000 Hz		Measurement Ra
Resonant Frequen		1200 kcpm	20 kHz	[2]	M - Metric Mount
	tion (1 to 10000 Hz)	120 µg	1177 µm/sec <sup>2</sup>	[2]	
Non-Linearity	,	±1 %	±1 %	[5]	Notes
Transverse Sensiti	vity	≤5 %	≤5 %		[1] Typical va
Environmental	·				[2] Typical.
Overload Limit (Shock)		5000 g pk	49050 m/s <sup>2</sup> pk		[3] Conversio
Temperature Rang	je ,	-65 to +250 °F	-54 to +94 °C		[4] The high f
Electrical					[5] Zero-base
Settling Time (within 1% of bias)		≤2.0 sec	≤2.0 sec		[6] 1/4-28 has
Discharge Time Co	onstant	≥0.2 sec	≥0.2 sec		[7] See PCB
Excitation Voltage		18 to 28 VDC	18 to 28 VDC		
Constant Current E	Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance		<100 Ohm	<100 Ohm		Supplied Access
Output Bias Voltag		8 to 12 VDC	8 to 12 VDC		081A56 Captive m
Spectral Noise (1		6.0 µg/√Hz	58.9 (µm/sec²/√Hz	[1][2]	ICS-1 NIST-tracea
Spectral Noise (1	00 Hz)	2.2 µg/√Hz	21.6 (µm/sec²/√Hz	[2]	upper 5% frequenc
Spectral Noise (1	kHz)	1.2 μg/√Hz	11.8 (µm/sec² /√Hz	[2]	
Electrical Protection		RFI/ESD	RFI/ESD		
Electrical Isolation (Case)		>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		
Physical					
Size (Length x Wid	Ith x Height)	1.5 in x 1.5 in x	38.1 mm x 38.1 mm x		
		0.82 in	20.8 mm		
Weight		4.9 oz	139 gm		
Mounting Thread		1/4-28 Male	Not Applicable	[6]	
Mounting Torque		2 to 5 ft-lb	2.7 to 6.8 Nm		
Sensing Element		Ceramic	Ceramic		
Sensing Geometry	,	Shear	Shear		
Housing Material		Stainless Steel	Stainless Steel		
Sealing		Welded Hermetic	Welded Hermetic		
Electrical Connecte	or	4-Pin MIL-C-	4-Pin MIL-C-26482		
Flootrical Carrier	on Docition	26482	0:4-		
Electrical Connection Position		Side	Side		
Electrical Connections (Pin A)		X axis Y axis	X axis Y axis		
Electrical Connections (Pin B)		Y axis Z axis	Y axis Z axis		
Electrical Connections (Pin C) Electrical Connections (Pin D)		Ground	Ground		Entered:
Lieutiliai Collifetti	UIIO (FIII D)	Giodila	Giodila		Date:

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision A ECN #: 10490

LB - Low Bias Voltage

Output Bias Voltage 6 to 8 VDC 6 to 8 VDC Excitation Voltage 12 to 18 VDC 12 to 18 VDC Measurement Range ±343 m/s<sup>2</sup> ±35 g

## Notes

- [1] Typical value.
- [2] Typical.
- [3] Conversion Factor  $1g = 9.81 \text{ m/s}^2$ .
- [4] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [5] Zero-based, least-squares, straight line method.
- [6] 1/4-28 has no equivalent in S.I. units.
- [7] See PCB Declaration of Conformance PS023 for details.

## **Supplied Accessories**

081A56 Captive mounting bolt 1/4-28 x .75" ()

ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ()

Entered:	Engineer:	Sales:	Approved:	Spec Number:
Date:	Date:	Date:	Date:	8402



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All specifications are at room temperature unless otherwise specified.

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

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