

MODEL NUMBER 7533A5	PERFORMANCE SPECIFICATIONS					DOC NO. PS7533A5	
		TRIAXIAL, DC ACCELEROMETER				REV D ECN 14900, 03/01/19	
			Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(µGrms/sqr(Hz))	Oper. Temp(°F)
	• LOW COST		7533A1	420	±2	250	-40 to 185



- WIDE SUPPLY VOLTAGE RANGE
- LOW CURRENT CONSUMPTION

		ENGLIS	SH	SI	
PHYSICAL					
Weight, Max. (less cable)		0.21	oz	6.0	grams
Mounting		2X M2 Screws		2X M2 Screws	
Cable	Type	6-conductor		6-conductor	
	Material	Santoprene		Santoprene	
Housing	Material	Aluminum, Anodized		Aluminum, Anodized	
	Isolation	Case Isolated		Case Isolated	
PERFORMANCE					
Sensitivity, +/-25% [1]		6.5	mV/g	0.7	mV/m/s <sup>2</sup>
Acceleration Range		±200	Gpeak	±1962	m/s² peak
Frequency Range, -3dB	X,Y axes	0 to 1300	Hz	0 to 1300	Hz
	Z-axis	0 to 1000	Hz	0 to 1000	Hz
Resonance Frequency		>16.5	kHz	>16.5	kHz
Linearity [2]		<0.51	%F.S.	<0.51	%F.S.
Transverse Sensitivity Max		5	%	5	%
Spectral Noise	X,Y axes	2700	μGrms/vHz	26487	µm/s² rms/√Hz
	Z-axis	4300	μGrms/vHz	42183	µm/s² rms/√Hz
Sensitivity Change Due to Te	mperature	±0.011	%/°F	±0.02	%/°C
ELECTRICAL					
Supply Current		350	μA	350	μA
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC
Output Impedance, Typ.		100	Ω	100	Ω
Output Bias Voltage		1.4 to 1.7	VDC	1.4 to 1.7	VDC
Output Range		±1.5	VDC	±1.5	VDC
Self-Test Output [3]	X-axis	-6.5	mV	-6.5	mV
	Y-axis	+6.5	mV	+6.5	mV
	Z-axis	+11.5	mV	+11.5	mV
Turn-On Time		1	ms	1	ms
ENVIRONMENTAL					
Shock Max		10,000	g pk	98100	m/s²
Vibration Max		5000	g pk	49050	m/s <sup>2</sup>
Operating Temperature		-40 to +185	°F	-40 to +85	°C
Seal		Epoxy		Epoxy	

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7533A1	420	±2	250	-40 to 185
7533A2	300	±3	175(x,y); 300(z)	-40 to 185
7533A3	174	±5	250	-40 to 185
7533A4	57	±16	300	-40 to 185

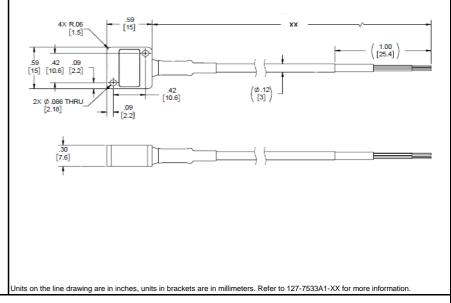
Please, refer to the performance specifications of the products in this family for detailed description

## Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting Screw, Model 6675, M2x0.4 x 12mm, qty. 2

## Notes:

- [1] Measured at 100 Hz, 5 Grms per ISA RP 37.2
- [2] Linearity is % of specified full scale (or any less full-scale range), zero-based best fit straight line method.
- [3] Refer to the Operating Guide for instructions on how to use Self-Test feature





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