

MODEL NUMBER 7533A2	PERFORMANCE SPECIFICATIONS						DOC NO. PS7533A2
		TRIAXIAL, DC ACCELEROMETER				REV C ECN 13570, 07/20/17	
			Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(μGrms/sqr(Hz))	Oper. Temp(°F)
	• LOW COST		7533A1	420	±2	250	-40 to 185
	• WIDE SLIDDLY VOLTAGE D	ANGE	750040	474		250	40 to 405



- LOW CURRENT CONSUMPTION

		r				
		ENGLISH		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, +/-10% [1]		300	mV/g	30.6	mV/m/s <sup>2</sup>	
Acceleration Range, Min.		±3	Gpeak	±29.4	m/s² peak	
Frequency Range, -3dB	X,Y axes	0 to 1600	Hz	0 to 1600	Hz	
	Z-axis	0 to 550	Hz	0 to 550	Hz	
Resonance Frequency		>5.5	kHz	>5.5	kHz	
Linearity [2]		±0.3	%F.S.	±0.3	%F.S.	
Transverse Sensitivity Max		5	%	5	%	
Spectral Noise	X,Y axes	175	μGrms/√Hz	1717	µm/s² rms/√Hz	
	Z-axis	300	μGrms/vHz	2943	µm/s² rms/√Hz	
Sensitivity Change Due to Te	emperature	0.006	%/°F	0.01	%/°C	
ELECTRICAL						
Supply Current		300	μΑ	300	μА	
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC	
Output impedence, Typ.		100	Ω	100	Ω	
Output Bias Voltage	X,Y axes	1.35 to 1.65	VDC	1.3 to 1.7	VDC	
	Z-axis	1.2 to 1.8	VDC	1.2 to 1.8	VDC	
Output Range		±1.0	VDC	±1.0	VDC	
Self-Test Output [3]	X-axis	-150 to -600	mV	-210 to -850	mV	
	Y-axis	+150 to +600	mV	+210 to +850	mV	
	Z-axis	+150 to +1000	mV	+210 to +1400	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		Ероху		Ероху		

Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(μGrms/sqr(Hz))	Oper. Temp(°F)	
7533A1	420	±2	250	-40 to 185	
7533A3	174	±5	250	-40 to 185	
7533A4	57	±16	300	-40 to 185	
7533A5	6.5	±200	2700(x,y); 4300(z)	-40 to 185	

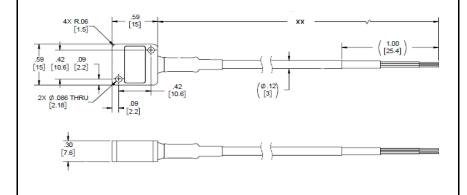
Please, refer to the performance specifications of the products in this family for detailed description

## 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



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-7533A1-XX for more information.



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