

MODEL NUMBER 7533A1		PERFORMANCE SPECIFICATIONS				DOC NO. PS7533A1		
		TRIAxIAL , DC ACCELEROMETER				REV G, ECN 17146, 05/15/23		
		• LOW COST • WIDE SUPPLY VOLTAGE RANGE • LOW CURRENT CONSUMPTION		Model	Sensitivity (mV/g)	Frequency Response, -3dB (Hz)	Noise (µg RMS/√Hz)	Oper. Temp (°F)
				7533A2	300	0 to 1600 (x,y); 0 to 550 (z)	175(x,y); 300(z)	-40 to 185
				7533A3	174	0 to 1000 (x,y); 0 to 550 (z)	250	-40 to 185
				7533A4	57	0 to 1600 (x,y); 0 to 550 (z)	300	-40 to 185
				7533A5	6.5	0 to 1300 (x,y); 0 to 1000 (z)	2700(x,y); 4300(z)	-40 to 185
PHYSICAL		ENGLISH		SI		Please, refer to the performance specifications of the products in this family for detailed description		
		Weight, Max. (less cable)	0.21 oz	6.0 grams				
Mounting		2X M2 Screws		2X M2 Screws		Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Mounting Screw, Model 6675, M2x0.4 x 12mm, qty. 2		
		Cable		Cable				
Type		6-conductor		6-conductor		Notes: [1] All specifications are at room temperature unless otherwise specified. [2] Measure using zero-based straight line method, % of F.S. or any lesser range. [3] In the interest of constant product improvement, we reserve the rights 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.		
		Material		Material				
Housing		Santoprene		Santoprene				
		Material		Aluminum, Anodized				
Isolation		Case Isolated		Case Isolated				
PERFORMANCE								
Sensitivity, +/-10% [1]		420 mV/g		42.8 mV/m/s²				
Acceleration Range, Min.		±2 g pk		±19.6 m/s² pk				
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				
Spectral Noise		250 µg RMS/√Hz		2453 µm/s² RMS/√Hz				
Linearity		±0.21 %F.S.		±0.21 %F.S.				
Transverse Sensitivity Max		5 %		5 %				
Sensitivity Change Due to Temperature		±0.006 %/°F		±0.01 %/°C				
ELECTRICAL								
Supply Current		350 µA		350 µA				
Supply Voltage Range		4 to 28 VDC		4 to 28 VDC				
Output Impedance, Typ.		32 kΩ		32 kΩ				
Output Bias Voltage		X,Y axes 1.3 to 1.7 VDC		1.3 to 1.7 VDC				
		Z-axis 1.2 to 1.8 VDC		1.2 to 1.8 VDC				
Output Range		±0.95 VDC		±0.95 VDC				
Self-Test Output [2]		X-axis -210 to -850 mV		-210 to -850 mV				
		Y-axis +210 to +850 mV		+210 to +850 mV				
		Z-axis +210 to +1400 mV		+210 to +1400 mV				
Turn-On Time		1 ms		1 ms				
ENVIRONMENTAL								
Maximum Shock		10,000 g pk		98100 m/s² pk				
Operating Temperature		-40 to +185 °F		-40 to +85 °C				
Seal		Epoxy		Epoxy				



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