

PERFORMANCE SPECIFICATIONS DOC NO. PS7531A1 SINGLE AXIS, DC ACCELEROMETER Model Sensitivity (mV/g) Range (g.pk) Noise(ug RMS/sgr(Hz)) Oper Temp(°F)



- LOW COST
- WIDE SUPPLY VOLTAGE RANGE
- LOW CURRENT CONSUMPTION

		ENGLISH		SI	
PHYSICAL		LINGLIC	21.1		
Weight, Max. (less cable)		0.21	oz	6.0	grams
Mounting		2X M2 Screws		2X M2 Screws	g
Cable	Type	6-conductor		6-conductor	
	Material	Santoprene		Santoprene	
Housing	Material	Aluminum, Anodized		Aluminum, Anodized	
-	Isolation	Case Isolated		Case Isolated	
PERFORMANCE					
Sensitivity, +/-10% [1]		420	mV/g	42.8	mV/m/s ²
Acceleration Range		±2	g pk	±19.6	m/s² pk
Frequency Range, -3dB		0 to 1600	Hz	0 to 1600	Hz
Resonance Frequency		>5.5	kHz	>5.5	kHz
Linearity [2]		±0.21	%F.S.	±0.21	%F.S.
Transverse Sensitivity Max		5	%	5	%
Spectral Noise		250	μg RMS/√Hz	2453	µm/s² RMS/√Hz
Sensitivity Change Due to Te	mperature	±0.006	%/°F	±0.01	%/°C
ELECTRICAL					
Supply Current		350	μΑ	350	μA
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC
Output Impedance, Typ.		100	Ω	100	Ω
Output Bias Voltage		1.3 to 1.7	VDC	1.3 to 1.7	VDC
Output Range		±0.95	VDC	±0.95	VDC
Self-Test Output [3]		-210 to +850	mV	-210 to +850	mV
Turn-On Time		1	ms	1	ms
Electrical Isolation (Case)		> 100	ΜΩ	> 100	ΜΩ
ENVIRONMENTAL					
Shock Max		10,000	g pk	98100	m/s ² pk
Vibration Max		5000	g pk	49050	m/s² pk
Operating Temperature		-40 to +185	°F	-40 to +85	°C
Seal		Ероху		Ероху	

				,	
	Model	Sensitivity (mV/g)	Range (g pk)	Noise(μg RMS/sqr(Hz))	Oper. Temp(°F)
	7531A2	300	±3	175	-40 to 185
	7531A3	174	±5	250	-40 to 185
	7531A4	57	±16	300	-40 to 185
	7531A5	6.5	±200	2700	-40 to 185

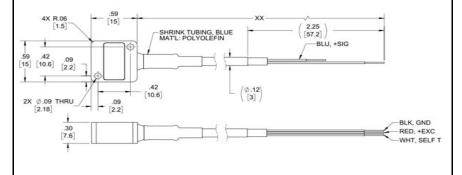
Please, refer to the performance specifications of the products in this family for detailed description

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, 1 g RMS 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
- [4] 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-7531A1-XX for more information.



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