

MODEL NUMBER 7531A2	PERFORMANCE SPECIFICATIONS					DOC NO. PS7531A2	
		SINGLE AXIS, DC ACCELEROMETER			REV D ECN 15400, 11/11/19		
			Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(μGrms/sqr(Hz))	Oper. Temp(°F)
-	• LOW COST		7531A1	420	±2	250	-40 to 185
	<ul> <li>WIDE SUPPLY VOLTAGE R</li> </ul>	RANGE	7531A3	174	±5	250	-40 to 185



LOW CURRENT CONSUMPTION

		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	
l	Isolation	Case Isolated		Case Isolated	
PERFORMANCE					
Sensitivity, +/-10% [1]		300	mV/g	30.6	mV/m/s <sup>2</sup>
Acceleration Range		±3	Gpeak	±29.4	m/s² peak
Frequency Range, -3dB		0 to 1600	Hz	0 to 1600	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		175	µGrms/√Hz	1717	µm/s² rms/√Hz
Sensitivity Change Due to	Temperature	0.006	%/°F	0.01	%/°C
ELECTRICAL					
Supply Current		175	μA	175	μA
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC
Output Impedance, Typ.		100	Ω	100	Ω
Output Bias Voltage		1.35 to 1.65	VDC	1.35 to 1.65	VDC
Output Range		±1.0	VDC	±1.0	VDC
Self-Test Output [3]		+150 to -600	mV	+150 to -600	mV
Turn-On Time		1	ms	1	ms
ENVIRONMENTAL					
Shock Max		10,000	g pk	98100	m/s <sup>2</sup>
Vibration Max		5000	g pk	49050	m/s <sup>-</sup>
Operating Temperature		-40 to +185	°F	-40 to +85	°C
Seal		Ероху		Ероху	

LENOMETER				KEV D LCN 13400, 11/11/19		
Model	Sensitivity (mV/g)	Range (Gpeak) Noise(µGrms/sqr(Hz))		Oper. Temp(°F)		
7531A1	420	±2	250	-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		

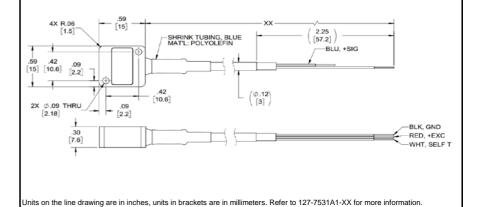
Please, refer to the performance specifications of the products in this family for detailed description

## 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, 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
- [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.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For

permission to reprint this content, please contact info@dytran.com

