

MODEL NUMBER
7533A3

PERFORMANCE SPECIFICATIONS
PS7533A3

TRIAXIAL, DC ACCELEROMETER

REV C ECN 13570, 07/20/17



- LOW COST
- WIDE SUPPLY VOLTAGE RANGE
- 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	
	Isolation	Case Isolated		Case Isolated	
PERFORMANCE					
Sensitivity, +/-10% [1]		174	mV/g	17.7	mV/m/s <sup>2</sup>
Acceleration Range, Min.		±5	Gpeak	±49.1	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]		±0.21	%F.S.	±0.21	%F.S.
Transverse Sensitivity Max		5	%	5	%
Spectral Noise		250	µGrms/√Hz	2453	µm/s² rms/√Hz
Sensitivity Change Due to Te	mperature	±0.006	%/°F	±0.01	%/°C
ELECTRICAL					
Supply Current		350	μA	350	μA
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC
		100	Ω	100	Ω
Output Bias Voltage		1.3 to 1.7	VDC	1.3 to 1.7	VDC
Output Range		±0.975	VDC	±0.975	VDC
Self-Test Output [3]	X-axis	-90 to -350	mV	-90 to -350	mV
	Y-axis	+90 to +350	mV	+90 to +350	mV
	Z-axis	+90 to +580	mV	+90 to +580	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/s²
Operating Temperature		-40 to +185	°F	-40 to +85	°C
Seal		Ероху		Epoxy	

	Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(μGrms/sqr(Hz))	Oper. Temp(°F)
	7533A1	420	±2	250	-40 to 185
	7533A2	300	±3	175(x,y); 300(z)	-40 to 185
	7533A4	57	±16	300	-40 to 185
	7533A5	6.5	±200	2700(x,y); 4300(z)	-40 to 185

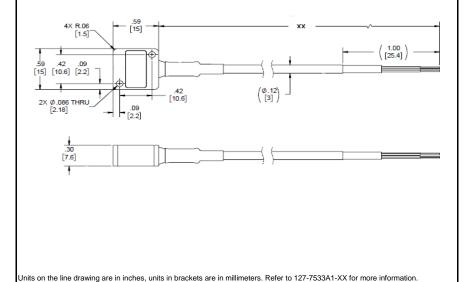
Please, refer to the performance specifications of the products in this family for detailed description

## 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





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