

MODEL NUMBER 7533A7-XX				PERFORM	ANCE SPE	CIFICA	TIONS		
				TR	IAXIAL, DC ACCEL	EROMETER	₹		
						Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(µGrms/s
STATE -		 LOW COST 				7533A1	420	±2	250
		• WIDE SUPPLY	Y VOLTAGE I	RANGE		7533A2	300	±3	175(x,y); 30
		• LOW CURREN	NT CONSUM	PTION		7533A3	174	±5	250
						7533A4	57	±16	300
		ENGLIS	SH	SI		7533A5	6.5	±200	4300
PHYSICAL	_								
Weight, Max. (less cable)		0.21	oz	6.0	grams	Refer to th	e performance sp	ecifications of th	e products in t
Mounting		2X M2 Screws		2X M2 Screws					
Cable	Type	6-conductor		6-conductor		Supplied A	Accessories:		
	Material	Santoprene		Santoprene		1) Accredit	ted calibration cer	tificate (ISO 170	25)
Housing	Material	Aluminum, Anodized		Aluminum, Anodized			g Screw, Model 6		
1	Isolation	Case Isolated		Case Isolated					

PERFORMANCE

Sensitivity, ±10% [1]	20	mV/g	2.0
Acceleration Range	±40	Gpeak	±1962
Frequency Range, -3dB	0 to 1500	Hz	0 to 15
Resonance Frequency	>4.5	kHz	>4.5
Linearity [2]	<0.5	%F.S.	<0.5
Transverse Sensitivity Max	5	%	5
Spectral Noise Density	200	µGrms/√Hz	1962
Sensitivity Change Due to Temperature	±0.008	%/°F	±0.01
Overload Recovery Time	158	μsec	158
Warm-Up Time	900	µsec	900
		₹	

20	mv/g	2.0	mv/m/s
±40	Gpeak	±1962	m/s² peak
0 to 1500	Hz	0 to 1500	Hz
>4.5	kHz	>4.5	kHz
<0.5	%F.S.	<0.5	%F.S.
5	%	5	%
200	µGrms/√Hz	1962	µm/s² rms/√Hz
±0.008	%/°F	±0.01	%/°C
158	µsec	158	μsec
900	µsec	900	μsec

ELECTRICAL

Operating Current, Max.		250	
Supply Voltage Range		4 to 28	
Output Series Resistance		32	
Output Bias Voltage		0.8 to 1.0	
Self-Test Output [3]	Z-axis	+25	
urn-On Time		<10	

250	μΑ
4 to 28	VDC
32	kΩ
0.8 to 1.0	VDC
+25	mV
<10	ms

32 0.8 to 1.0	
0.8 to 1.0	
+25	
<10	

250

μΑ

VDC kΩ

VDC

m۷

ms

ENVIRONMENTAL
Shock May

Snock Max
Vibration Max
Operating Temperature
Seal
Magnetic Sensitivity @ 100 Gauss
Base Strain Sensitivity, Max

g pk
g pk
°F
g/Gaus
g/με

j pk	49050	m/s ²
g pk	9810	m/s ²
°F	-40 to +125	°C
	Epoxy	
Gauss	0.003	g/Gauss
g/με	0.0008	g/με

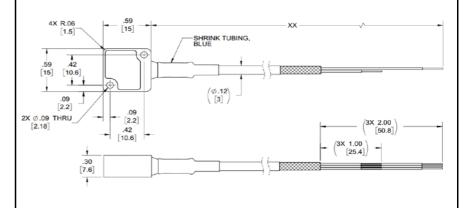
	Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(μGrms/sqr(Hz))	Oper. Temp(°F)
	7533A1	420	±2	250	-40 to 185
	7533A2	300	±3	175(x,y); 300(z)	-40 to 185
	7533A3	174	±5	250	-40 to 185
	7533A4	57	±16	300	-40 to 185
	7533A5	6.5	±200	4300	-40 to 185

DOC NO. PS7533A7-XX REV A, ECN 15037, 10/25/19

n this family for detailed description

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 right 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 127-7533A7-XX for more information.



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