

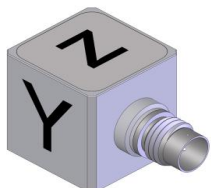
3543A

PERFORMANCE SPECIFICATION

DOC NO  
PS3543A

Accelerometer, Triaxial, IEPE

REV X4, ECN - 04/21/15



- GROUND ISOLATED
- HERMETICALLY SEALED
- STUD MOUNT

ENGLISH	SI
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PHYSICAL

Weight, Max	0.5	oz
Mounting	10-32 Stud Mount	
Connector [1]	4-pin	Type
	Titanium	Material
Housing	Titanium	Material
	Case Isolated	Isolation
Sensing Element	Piezoelectric	Material
	Shear	Element

	15	grams
	10-32 Stud Mount	
	4-pin	
	Titanium	
	Titanium	
	Case Isolated	
	Piezoelectric	
	Shear	

PERFORMANCE

Sensitivity, ±10% [2]	100	mV/g
Acceleration Range, ±	50	Gpeak
Frequency Range, ±5%	2 -2000	Hz
Frequency Range, ±10%	1.3 -3000	Hz
Frequency Range, ±15%	1 -5000	Hz
Resonance Frequency	>25	kHz
Linearity [3]	1	%F.S.
Transverse Sensitivity, Max	6	%
Noise floor	0.0007	Grms
Spectral Noise	1000	1Hz
	500	10Hz
	100	100Hz
	60	1000Hz
	50	10000Hz

	10.2	mV/m/s <sup>2</sup>
	491	m/s <sup>2</sup> peak
	2 -2000	Hz
	1.3 -3000	Hz
	1 -5000	Hz
	>25	kHz
	1	%F.S.
	6	%
	0.007	m/s <sup>2</sup> rms
	9810	1Hz
	4905	10Hz
	981	100Hz
	589	1000Hz
	491	10000Hz

ELECTRICAL

Supply Current Range [4]	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC
Output Impedance, Typ.	100	Ω
Output Bias Voltage	+7 to +9	VDC
Discharge Time Constant	0.25 to 2.0	sec

	2 to 20	mA
	+18 to +30	VDC
	100	Ω
	+7 to +9	VDC
	0.25 to 2.0	sec

ENVIRONMENTAL

Shock Max	1500	g pk
Vibration Max	500	g pk
Operating Temperature Seal	-60 to +320	°F
	Hermetic	
Base Strain Sensitivity	0.002	g/με

	14715	m/s <sup>2</sup>
	4905	m/s <sup>2</sup>
	-51 to +160	°C
	Hermetic	
	0.02	m/s <sup>2</sup> /με

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Noise Resolution (Grms)	Temp Range (°F)	Time Constant (sec)

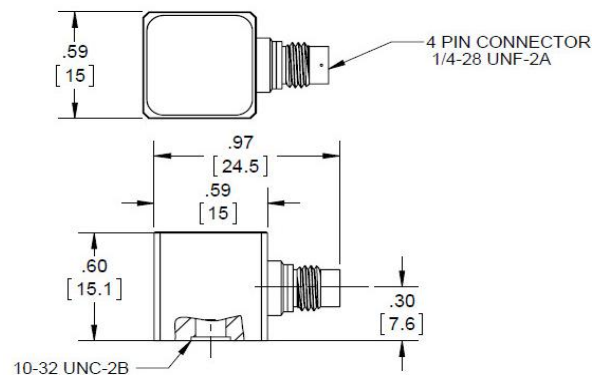
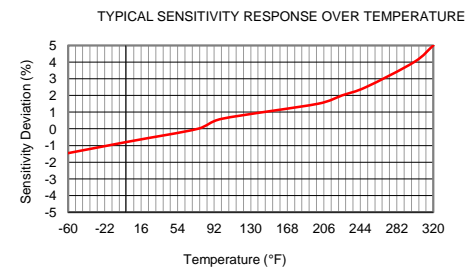
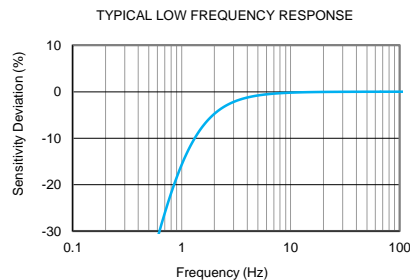
Please refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025).
- 2) Mounting stud model 6200, (10-32 to 10-32).

Notes:

- [1] Glass to Metal Seal connector. Mates with Dytran cable Model 6811AXX (XX=length in feet).
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2.
- [3] Measured using zero-based best straight-line method.
- [4] Do not apply power to this device without current limiting, 20mA Max, to do so will destroy the integral IC amplifier.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3543A for more information.



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