

WIRE COLOR	FUNCTION
BLACK	X(1) AXIS SIGNAL / POWER
RED	Y (2) AXIS SIGNAL / POWER
WHITE	Z (3) AXIS SIGNAL / POWER
YELLOW	SIGNAL GROUND

Mass, without cable: 2.5 grams

Sensitivity: 10mV/g

Housing Material: Titanium Alloy

ALL DIMENSIONS IN INCHES
TOLERANCE: XXX = ± .005 .XX = ± .01
SURFACE FINISH
EXCEPT AS NOTED

BREAK EDGES TO DEBURR .005 / .015
RADIUS OR CHAMFER

FILLETS: .005 MAX R

DYTRAN MASTER INSTRUMENTS, INC. ONLY IF IN RED

INSTRUMENTS, INC. ONLY IF IN RED CHATSWORTH, CA

SCALE 2:1 PATE - PATE - PART NO.

DRAWN CHECKED MATERIAL

APPROVED MATERIAL

APPROVED DEATH OF THE PART ASSEMBLY DATE OF THE

OUTLINE / INSTALLATION DRAWING

127-3243A

SHEET 1 OF 1

DOC NO Model Number PERFORMANCE SPECIFICATION PS3243A 3243A IEPE QUARTZ SHEAR ACCELEROMETER REV A , ECN 11066 06/11/14



- EYCELLENT LINEARITY
- ELECTRICALLY ISOLATED
- HERMETICALLY SEALED
- IMMERSION PROOF BOOT
- ULTRA LOW WEIGHT

Quartz

PHYSICAL

Weight, Less Cable, Max Integral Cable [1]

Length

Mounting Provision Material, Accelerometer Sensing Material

DED	-	ANCE

Sensitivity, -10 / +15% [2] Range F.S for ± 5 Volts Output Frequency Range, -5 / +15% Resonant Frequency Equivalent Electrical Noise Floor Linearity [3] Transverse Sensitivity, Max Strain Sensitivity @ 250μσ

ENVIRONMENTAL

Maximum Vibration Maximum Shock Temperature Range Seal, Hermetic

ELECTRICAL

Supply Current Range [4] Compliance Voltage Range Output Impedence, Typ Bias Voltage Discharge Time Constant

Electrical Isolation, Case Ground To Mounting Surface

_	 ·	_	 -	••	•	•	_	•••	٦	-	٠.	٠,	•	•	

0.09	oz
Cutoff	
78	Inches
Adhesive Mount	
Titanium	

ENGLISH

grams
meters

	_
10	mV/g
±500	g
2 to 7000	Hz
> 40	kHz
0.007	Grms
1	% F.S.
5	%
0.039	G's/μσ

2 to 7000	Hz
> 40	kHz
0.069	m/s ² rms
1	% F.S.
5	%
0.38	m/s²/με

±4905

±600	Gpeak
±5000	Gpeak
-60 to+250	°F
Welded/GTM Header	

±5886	m/s² peal
±49050	m/s² peal
-51 to +121	°C
Welded/GTM Header	

2 to 20	mA
+ 18 to +30	Volts
100	Ω
+7 to +9	VDC
0.3 to 1.5	Sec
10	GΩ,min

	_
2 to 20	mA
+ 18 to +30	Volts
100	Ω
+7 to +9	VDC
0.3 to 1.5	Sec
10	$G\Omega$,min

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

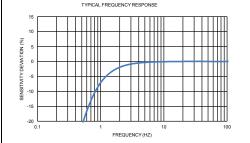
1) Accredited calibration certificate (ISO 17025)

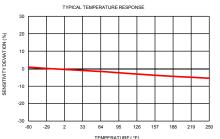
Notes:

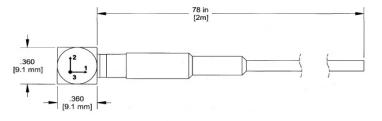
mV/m/s²

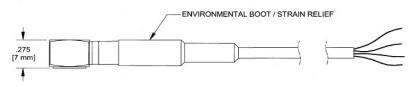
m/s²

- [1] Side Mounted
- [2] Measured at 100Hz, 1 Grms per ISA RP 37.2
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.









Units on the line drawing are in inches. Refer to 127-3243A for more information.

