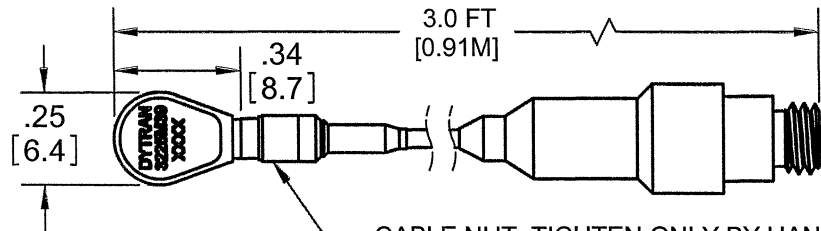


**PROPRIETARY AND CONFIDENTIAL**

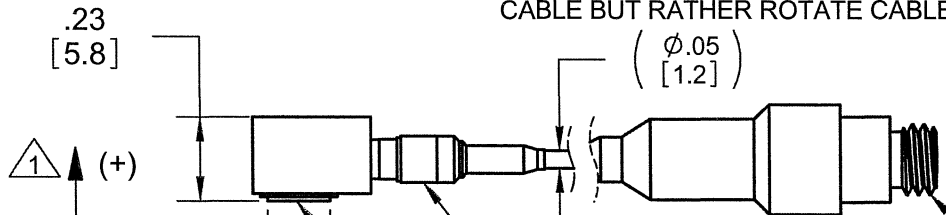
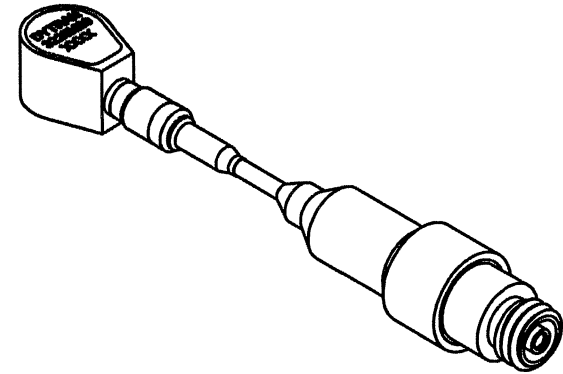
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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	7639	PRELIMINARY RELEASE	JS, 06/20/11	DA	DU



CABLE NUT, TIGHTEN ONLY BY HAND. DO NOT USE PLIERS TO TIGHTEN. DO NOT ROTATE ACCELEROMETER INTO CABLE BUT RATHER ROTATE CABLE NUT.



COAXIAL CONNECTOR, DYTRAN SPECIAL 3-56 THREAD

MOUNTING SURFACE, ADHESIVE MOUNT WITH CYANOACRYLATE ADHESIVE OR DYTRAN MOUNTING WAX MODEL 6273

10-32 COAXIAL CONNECTOR, JACK (PART OF 6003A03 CABLE INCLUDED)

- 3. CASE AND CONNECTION MATERIAL: TITANIUM
- 2. WEIGHT LESS CABLE: 0.95 GRAMS MAX.

△ 1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE OUTPUT SIGNAL

NOTES: UNLESS OTHERWISE SPECIFIED

CONTRACT NO.

**DYTRAN INSTRUMENTS, INC.** **MASTER ONLY IF IN RED**

TITLE: **OUTLINE / INSTALLATION DRAWING 3225M39**

APPROVALS		DATE
ORIG	JS	06/20/11
CHK	DA	06/22/11
APP	DU	6/21/11
APP		

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3225M39</b>	REV <b>A</b>
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

USED ON: APPLICATION: THIRD ANGLE PROJECTION USA

UNLESS OTHERWISE SPECIFIED:  
 INTERPRET DIM & TOL PER ASME Y14.5M - 1994.  
 REMOVE BURRS.  
 COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.  
 CHAM EXT THDS 45° TO MINOR DIA.  
 THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.  
 THDS PER MIL-S-7742.  
 DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS  
 TOLERANCES ARE:  
 INCHES METRIC ANGLES  
 .XX ± .03 .X ± 0.8 ± 1°  
 .XXX ± .010 .XX ± 0.25

MATERIAL: \_\_\_\_\_  
 FINISH: \_\_\_\_\_

DO NOT SCALE DRAWING

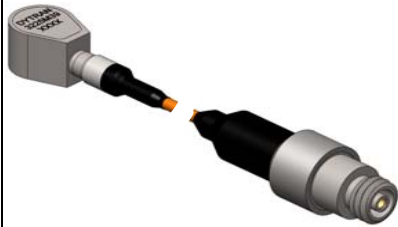
**MODEL NUMBER**  
**3225M39**

**PERFORMANCE SPECIFICATION**

**DOC NO.**  
**PS3225M39**

ACCELEROMETER , IEPE

REV A, ECN 7639 , 06/20/11



- MINIATURE SIZE
- HERMETICALLY SEALED
- LESS THAN 1 GRAM

**This family also includes:**

Model	Sensitivity (mV/g)	Range (g's)	Resolution (Grms)	Oper. Temp(*F)	TC

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

**Supplied Accessories**

- 1) Model 6591A removal wrench
- 2) Model 6298 small petro mounting wax
- 3) Accredited calibration certificate (ISO 17025)

**Notes:**

- [1] Flat mounting surface for adhesive mount.
- [2] Connector mates only with dytran cable model 6003AXX (XX is cable length in feet)
- [3] Measured at 100 Hz, 1 grms per ISA RP37.2.
- [4] Percent of full scale or any lesser calibrated range, zero based best-fit straight line method.
- [5] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier

**PHYSICAL**

	ENGLISH		SI	
Weight, Max (Less Cable)	0.03	oz	0.95	grams
Mounting Provision	[1]		[1]	
Connector	3-56 [2]	Radially Mounted	3-56 [2]	

**PERFORMANCE**

	ENGLISH		SI	
Sensitivity, ± 10% [3]	10	mV/g	1.02	mV/m/s <sup>2</sup>
Range F.S For ± 5 Volts Out	± 500	g's	± 4905	m/s <sup>2</sup>
Frequency Response, +/- 10%	1.2 to 10000	Hz	1.2 to 10000	Hz
Mounted Resonant Frequency	> 40	kHz	> 40	kHz
Amplitude Non-Linearity [4]	2	%F.S	2	%F.S
Transverse Sensitivity, Max	5	%	5	%
Noise Resolution	0.003	grms	0.03	m/s <sup>2</sup> rms
Strain Sensitivity @250/με	0.0005	g/με	0.0049	m/s <sup>2</sup> /με

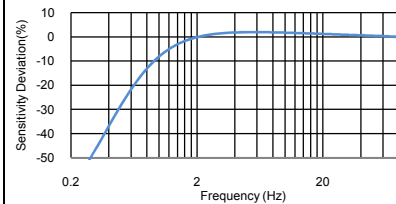
**ENVIRONMENTAL**

	ENGLISH		SI	
Maximum Vibration	400	Grms	3920	m/s <sup>2</sup> rms
Maximum Shock	5000	Gpeak	49000	m/s <sup>2</sup> peak
Temperature Range	-60 to +250	°F	-51 to +121	°C
Environmental Seal	Hermetic		Hermetic	

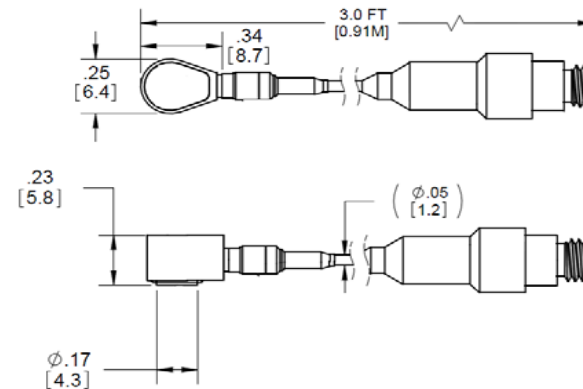
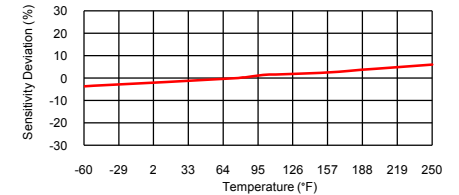
**ELECTRICAL**

	ENGLISH		SI	
Supply Current/Compliance Voltage Range [5]	2 to 20/+18 to +30	mA/Volts	2 to 20/+18 to +30	mA/Volts
Output Impedance, TYP	100	Ω	100	Ω
Bias Voltage	11 to 13	VDC	11 to 13	VDC
Discharge Time Constant	0.3 to 0.8	Sec	0.3 to 0.8	Sec

Typical Low Frequency Response



Typical Temperature Response



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3225M39 for more information.



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