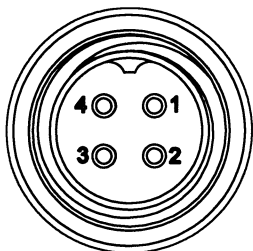


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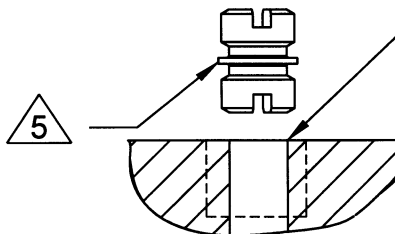
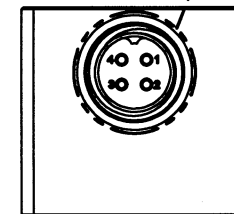
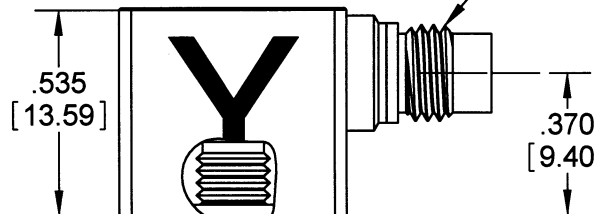
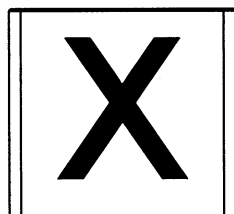
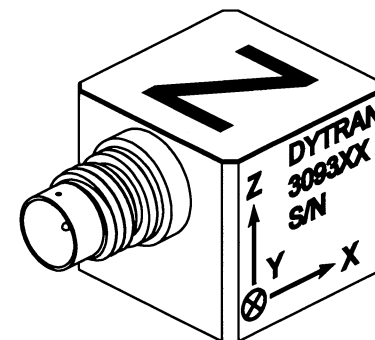
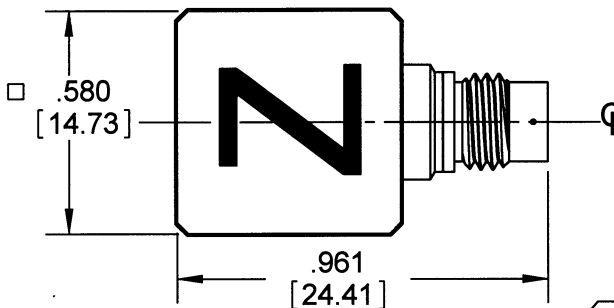
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5628	SEE ECN	EP 11/20/08	AWS	



**DETAIL A**

CONNECTOR PINOUT  
 PIN 1 GND RETURN, COMMON  
 PIN 2 SIG/PWR AXIS 2 (Y)  
 PIN 3 SIG/PWR AXIS 3 (Z)  
 PIN 4 SIG/PWR AXIS 1 (X)



MOUNTING RECOMMENDATIONS:  
 PREPARE MOUNTING SURFACE FLAT TO .001TIR.  
 DRILL AND TAP 10-32 UNC-2B $\nabla$ .188 [4.76] MINIMUM.  
 RECOMMENDED MOUNTING TORQUE: 15 LB IN +5/-0 LB IN.  
 FOR BEST FREQUENCY RESPONSE MOUNTING SURFACE  
 MUST CONTACT ENTIRE ACCELEROMETER MOUNTING  
 SURFACE.

6 MATES WITH DYTRAN CABLE 6811AXX (XX=LENGTH IN FEET)

5 MOUNTING STUD 10-32 UNF-2A (MODEL 6200 SUPPLIED)

4. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT.

3. HOUSING AND CONNECTOR MATERIAL: TITANIUM

2. WEIGHT: 10 GRAMS APPROX.

1. ENVIRONMENTAL SEAL: HERMETIC

NOTES: UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY
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

CONTRACT NO.

APPROVALS		DATE
ORIG	EP	11/20/08
CHK	RA	07/14/08
APP	DV	07/14/08
APP		

**DYTRAN INSTRUMENTS, INC.** Chatsworth, CA

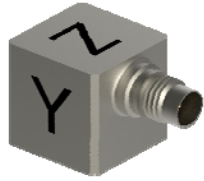
**MASTER ONLY IF IN RED**

TITLE: **OUTLINE DRAWING  
 MODEL 3093M17  
 TRIAXIAL ACCELEROMETER**

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3093M17</b>	REV <b>B</b>
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SCALE: 2:1      SOLIDWORKS      SHEET 1 OF 1

<b>Model Number</b>	<b>PERFORMANCE SPECIFICATION</b>			<b>DOC NO</b>
3093M17	Accelerometer, Triaxial, IEPE			PS3093M17
				REV H, ECN 14596, 10/24/18



- HIGH SENSITIVITY
- HERMETICALLY SEALED
- STUD MOUNTED

	ENGLISH		SI	
<b>PHYSICAL</b>				
Weight	0.35	oz	10.0	grams
Mounting Stud Mount	10-32 UNF-2A		10-32 UNF-2A	
Connector [1]	4-pin, 1/4-28		4-pin, 1/4-28	
Type	Titanium		Titanium	
Material	Titanium		Titanium	
Housing	Case Isolated		Case Isolated	
Material	Ceramic		Ceramic	
Sensing Element	Shear		Shear	
Mode				

**PERFORMANCE**

Sensitivity, +/-5% [2]	100	mV/g	10.19	mV/m/s^2
Acceleration Range	50	Gpeak	490.50	m/s^2 peak
Frequency Range, ±5%	.6-5000	Hz	.6-5000	Hz
Resonance Frequency	> 30	kHz	> 30	kHz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	6	%	6	%
Noise floor	0.0007	Grms	0.007	m/s^2 rms
Spectral Noise				
1Hz	200	µGrms/sqr(Hz)	1962	µm/s^2 rms/sqr(Hz)
10Hz	140	µGrms/sqr(Hz)	1373	µm/s^2 rms/sqr(Hz)
100Hz	90	µGrms/sqr(Hz)	882.9	µm/s^2 rms/sqr(Hz)
1000Hz	50	µGrms/sqr(Hz)	490.5	µm/s^2 rms/sqr(Hz)
10000Hz	20	µGrms/sqr(Hz)	196.2	µm/s^2 rms/sqr(Hz)

**ELECTRICAL**

Supply Current Range [4]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	100	Ω	100	Ω
Output Bias Voltage	+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant	0.7 to 1.7	sec	0.7 to 1.7	sec
Electical Isolation, Min.	10	GΩ	10	GΩ

**ENVIRONMENTAL**

Shock Max	1000	g pk	9810	m/s^2
Vibration Max	60	g pk	589	m/s^2
Operating Temperature	-60 to +225	°F	-51 to +107	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.00007	g/Gauss	0.0006867	m/s^2/Gauss
Base Strain Sensitivity	0.05	g/µε	0.4905	m/s^2/µε

**This family also includes:**

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC

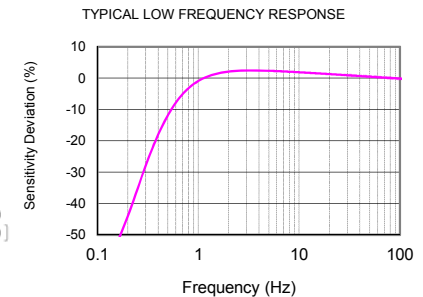
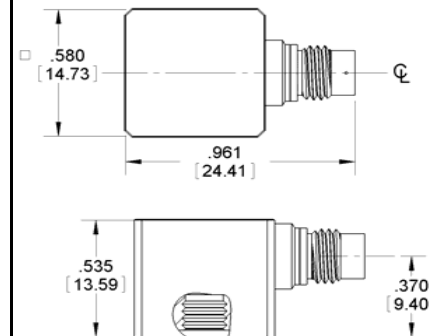
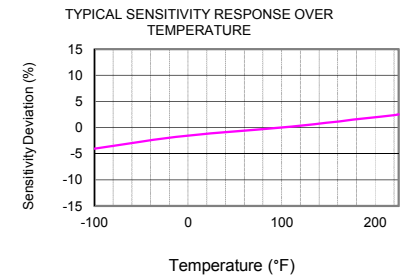
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Model 6200 Mounting Stud, Supplied, Qty: 1
- 2) Accredited Calibration Certificate (ISO 17025)

**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] Linearity is % of specified full scale (or any less full-scale range), zero-based best fit 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 127-3093M17 for more information.



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