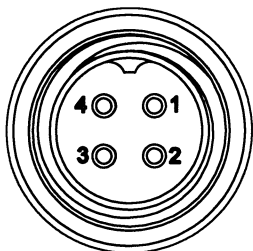


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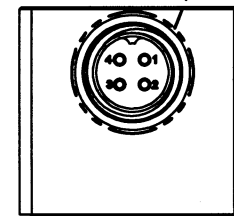
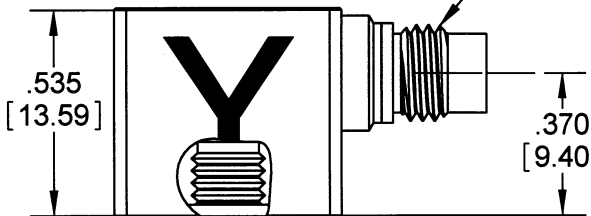
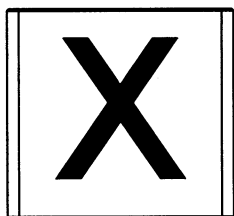
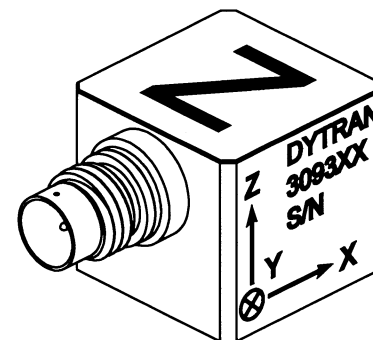
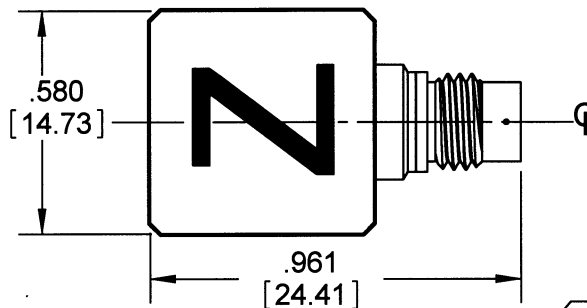
REVISIONS

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)



4 PIN CONNECTOR
 1/4-28 UNF-2A



A

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

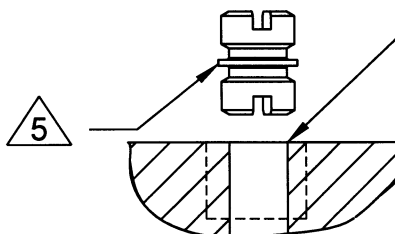
5 MOUNTING STUD 10-32 UNF-2A (MODEL 6200 SUPPLIED)

4. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT.

3. HOUSING AND CONNECTOR MATERIAL: TITANIUM

2. WEIGHT: 10 GRAMS APPROX.

1. ENVIRONMENTAL SEAL: HERMETIC



MOUNTING RECOMMENDATIONS:
 PREPARE MOUNTING SURFACE FLAT TO .001TIR.
 DRILL AND TAP 10-32 UNC-2B ∇ .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.

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		

MASTER ONLY IF IN RED

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

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

Model Number	PERFORMANCE SPECIFICATION	DOC NO
3093M17	Accelerometer, Triaxial, IEPE	PS3093M17

		REV E ECN 11333 09/18/14
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- **HIGH SENSITIVITY**
- **HERMETICALLY SEALED**
- **STUD MOUNTED**

	ENGLISH		SI	
PHYSICAL				
Weight	0.35	oz	10.0	grams
Size				
Length	0.961	inch	24.41	mm
Width	0.580	inch	14.73	mm
Height	0.535	inch	13.59	mm
Mounting Stud Mount Connector [1]	10-32 UNF-2A	screw	10-32 UNF-2A	screw
	4-pin, 1/4-28		4-pin, 1/4-28	
Housing	Ti-6 AL-4V		Ti-6 AL-4V	
	Ti-6 AL-4V		Ti-6 AL-4V	
Sensing Element	Case Isolated		Case Isolated	
	Ceramic		Ceramic	
	Shear		Shear	
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	5	%	5	%
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	200	μGrms/sqr(Hz)	1962	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
ENVIRONMENTAL				
Shock Max	7000	g pk	68670	m/s ²
Vibration Max	3000	g pk	29430	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

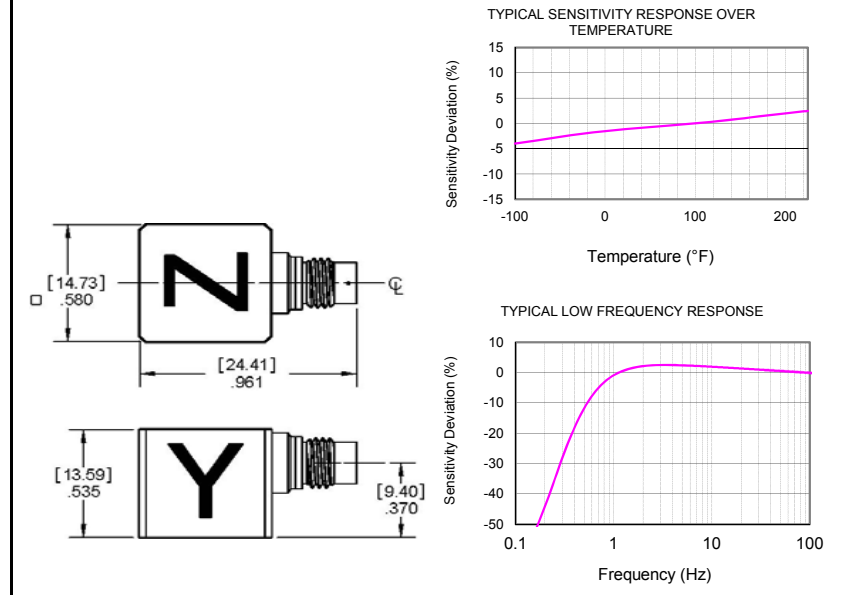
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Model 6247 Mounting Screw
- 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.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880
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