

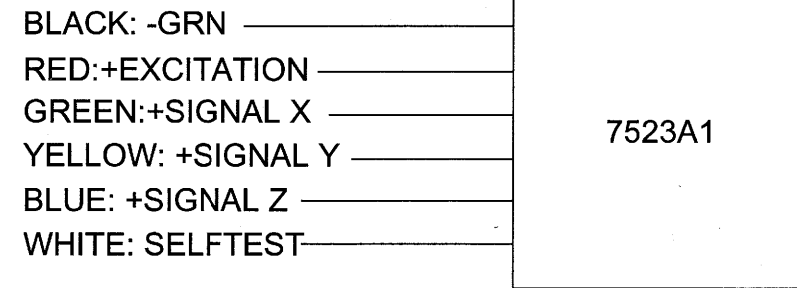
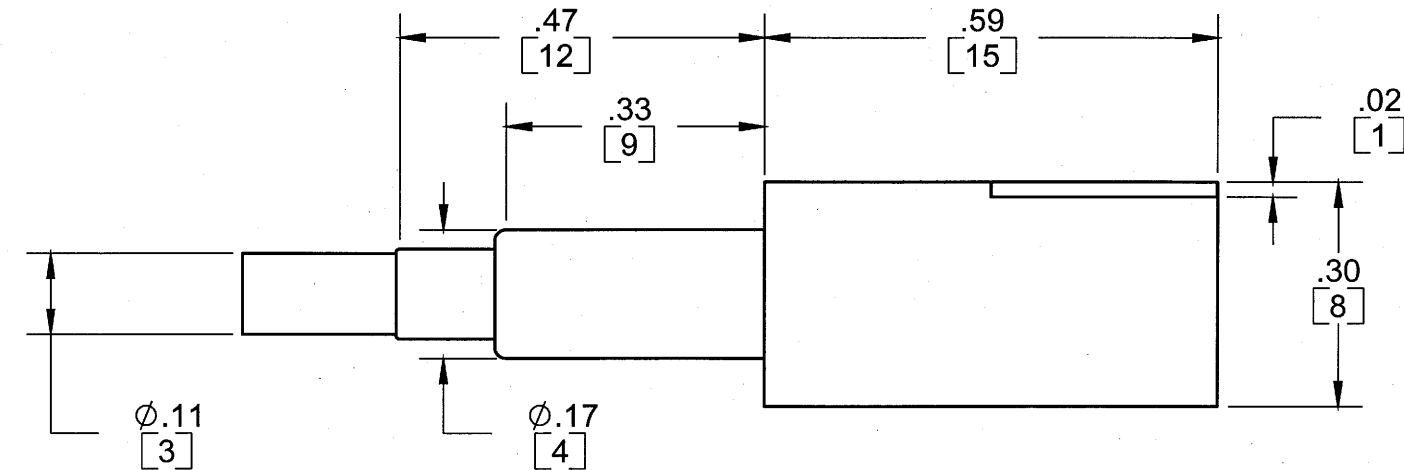
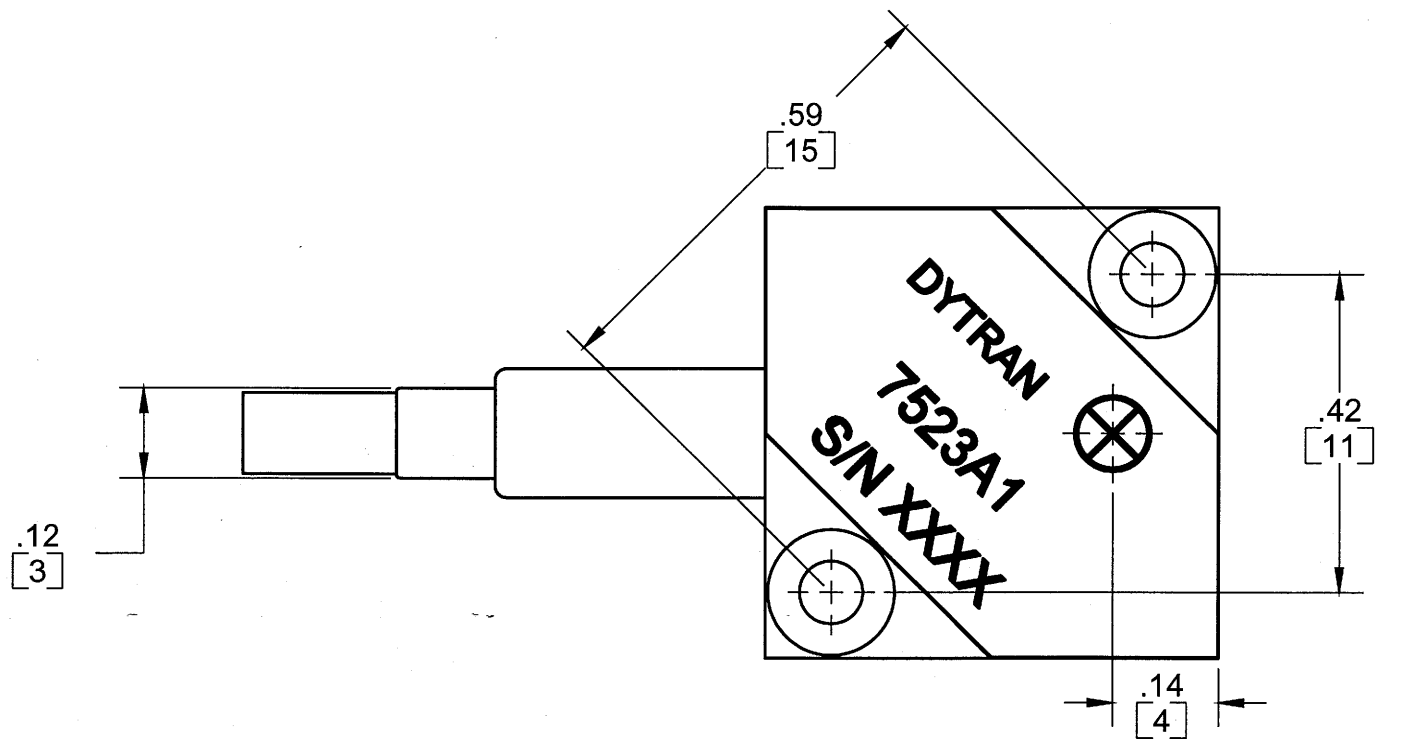
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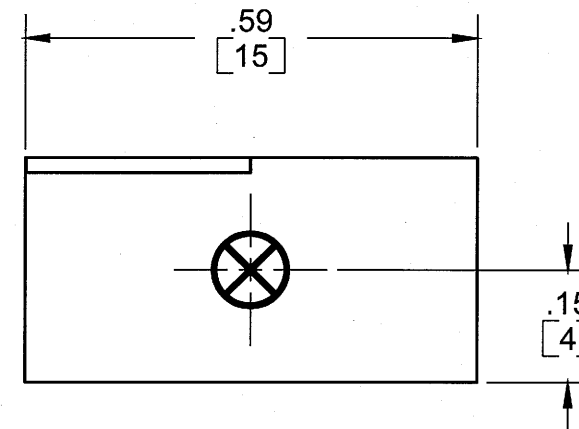
DWG NO 127-7523A1 SH 1 REV A

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5112	INITIAL RELEASE	03/07/08	CEJ	PML



WIRING DIAGRAM



DRILL HOLE SIZE	TOLERANCE	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
.0135 THRU .125	+0.04 / -.001	
.1260 THRU .250	+0.005 / -.001	
.2510 THRU .500	+0.006 / -.001	
.5010 THRU .750	+0.008 / -.001	
.7510 THRU 1.000	+0.010 / -.001	
1.001 THRU 2.000	+0.012 / -.001	

THIRD ANGLE PROJECTION
USA

ALL MACHINED SURFACES: $\sqrt{63}$
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.
TOLERANCES ARE:
DECIMALS .XX ± .010
.XXX ± .005
ANGLES ± 1°

CONTRACT NO.

APPROVALS
ORIG PML 10/18/07
CHK CEJ 3.19.08

MATERIAL:
ALUMINUM ALLOY

DATE
3.21.08

FINISH:

APP PML

DO NOT SCALE DRAWING



MASTER
ONLY IF IN RED
Chatsworth, CA

TITLE: DC ACCELEROMETER,
TRIAxIAL, 2g

SIZE B CAGE CODE 2W033 DWG NO 127-7523A1 REV A

SCALE: 4:1 SOLIDWORKS SHEET 1 of 1



SPECIFICATIONS, SERIES 7523A TRIAXIAL ACCELEROMETER

PERFORMANCE

	A1	A5	UNITS
Input Range	±2	±50	g
Output, bias, ±10%	2.5	2.5	V
Output range	±1.1	±1.1	V
Bandwidth, X & Y Axes	0-1500	0-1500	Hz
Z Axis	0-500	0-500	Hz
Sensitivity	550	22	mV/g
Output Noise, nomX & Y Axes	0.3	0.3	mg/√Hz
Output Noise, nom Z axis	0.35	0.35	mg/√Hz
Output Impedance	3500	3500	Ω

PERFORMANCE FOR ALL MODEL NUMBERS (T_c=+25°C)

	MIN	NOM	MAX	UNITS
Maximum Mechanical Shock			4000	g peak
Resonance Frequency		5000		Hz
Transverse Sensitivity			2	%
Operating Temperature	-55		+125	°C
Compensated Temperature Range (CTR)	-20		+70	°C
Thermal Zero in CTR			0.03	% FS/°C
Thermal Sensitivity Drift in CTR			0.02	% FS/°C
Storage Temperature	-55		-150	°C
Non-Linearity			0.3	%
Excitation, regulated		5		VDC
Current consumption		0.5		mA

PHYSICAL PARAMETERS FOR ALL MODEL NUMBERS

Case Material	anodized aluminum			
Cable Length	79			inch
Mounting Provision	two M2 screws (provided)			

	MIN	NOM		MAX	UNITS
		A1	A5		
Case Length		0.59			inch
Case Width		0.59			inch
Case Height		0.30	0.59		inch
Mounting Hole Spacing		0.59			inch
Mass				10	grams

NOTES:

SUPPLIED ACCESSORIES:

(2) Mounting Screws (Model 6722), M2 x 12 flathead