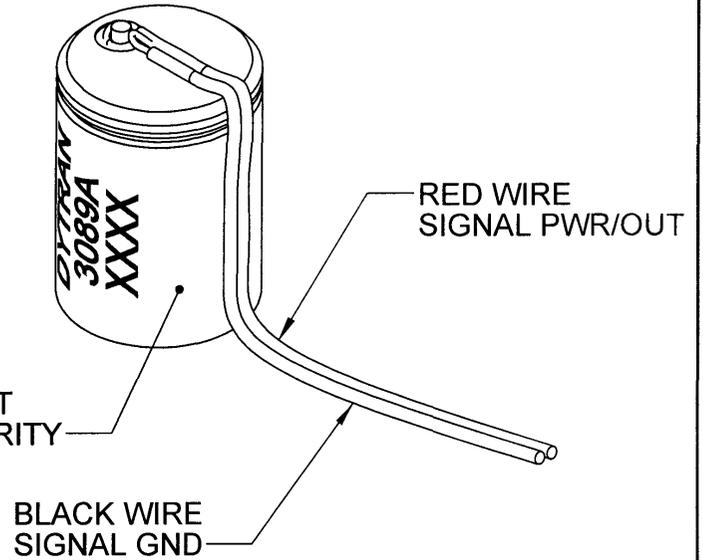
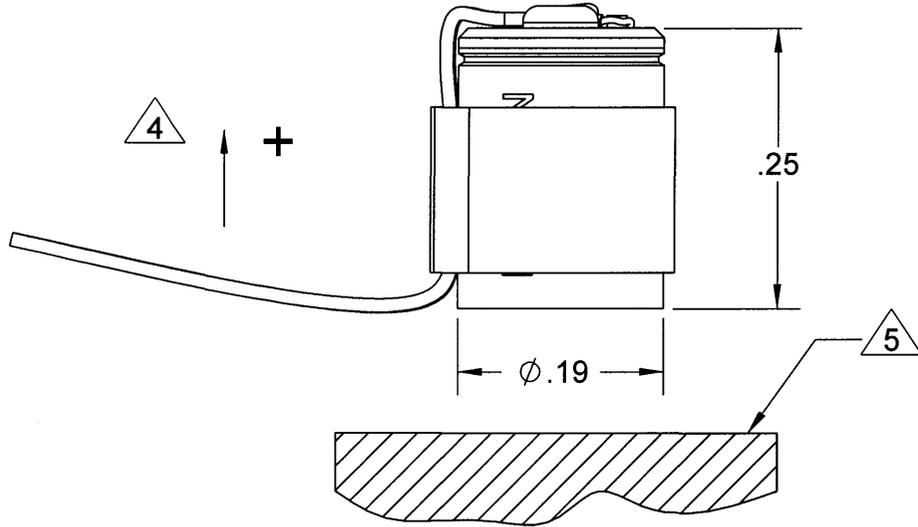


**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5485	48 INCHES WAS 6, ADDED WIRE COLOR/CALL OUT	JS 09/22/08	RA	PML
C	5501	ADDED NOTES 4 & 5	JS 09/25/08	RA	JK



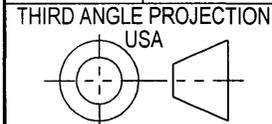
- 5** MOUNTING RECOMMENDATIONS: PREPARE SURFACE AT LEAST  $\phi .200$ , ASSURE FLATNESS OF  $.0001$  TIR OR BETTER. USE CYANOACRYLATE TO MOUNT ACCELEROMETER.
- 4** ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
3. WIRE LENGTH: 48 INCHES
  2. SENSITIVITY:  $10\text{mV/g} \pm 5\%$
  1. MASS 0.6 GRAMS

DRILL HOLE SIZE	TOLERANCE
.0135 THRU .125	$+0.04 / -.001$
.1260 THRU .250	$+0.05 / -.001$
.2510 THRU .500	$+0.06 / -.001$
.5010 THRU .750	$+0.08 / -.001$
.7510 THRU 1.000	$+0.10 / -.001$
1.001 THRU 2.000	$+0.12 / -.001$

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.

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES.  
 TOLERANCES ARE:

DECIMALS	ANGLES
.XX $\pm .010$	$\pm 1^\circ$
.XXX $\pm .005$	



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

MATERIAL	APPROVALS	DATE
	ORIG PML	4/3/2007
	CHK RA	01/21/08
	APP PML	01/21/08
	APP	

CONTRACT NO.	
APPROVALS	
ORIG	PML
CHK	RA
APP	PML
APP	



**MASTER ONLY IF IN RED**

Chatsworth, CA

TITLE: **OUTLINE DRAWING MODEL 3089A**

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-3089A</b>	<b>C</b>

SCALE: 6:1      SOLIDWORKS      SHEET 1 OF 1



**SPECIFICATIONS  
MODEL 3089A IEPE ACCELEROMETER**

<b>SPECIFICATION</b>	<b>VALUE</b>	<b>UNITS</b>
<b>PHYSICAL</b>		
WEIGHT	0.6	grams
SIZE, DIA x HEIGHT	0.19 x 0.25	inch
MOUNTING	adhesive	
OUTPUT WIRES	integral	
WIRE LENGTH	variable	
HOUSING MATERIAL	300 Series	Stainless Steel
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 5\%$ [1]	10.0	mV/g
RANGE F.S. FOR $\pm 5$ VOLTS OUTPUT	$\pm 500$	g
FREQUENCY RANGE, $\pm 10\%$	1 to 10000	Hz
RESONANT FREQUENCY	>50	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.0014	g rms
LINEARITY [2]	$\pm 1\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY (@250 $\mu\epsilon$ )	.012	g/ $\mu\epsilon$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION/SHOCK	$\pm 600/\pm 3000$	g PEAK
TEMPERATURE RANGE	-60 to +250	$^{\circ}\text{F}$
SEAL, HERMETIC	welded/gtm header	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/ $^{\circ}\text{F}$
<b>ELECTRICAL</b>		
SUPPLY CURRENT [3]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	+18 to +30	V
OUTPUT IMPEDANCE, TYP.	100	$\Omega$
BIAS VOLTAGE	+7 to +9	VDC
DISCHARGE TIME CONSTANT, NOM.	0.3 to 0.6	Sec
POLARITY (SEE OUTLINE DWG)	positive	
ELECTRICAL ISOLATION	case grounded	

[1] Measured at 100 Hz, 1 grms per ISA RP 37.2.

[2] Measured using zero-based best straight-line method, % of F.S. or any lesser range.

[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.



Presented by: Absolute Gauge Technologies  
 sales@absolutegauge.com; www.absolutegauge.com,  
 Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008