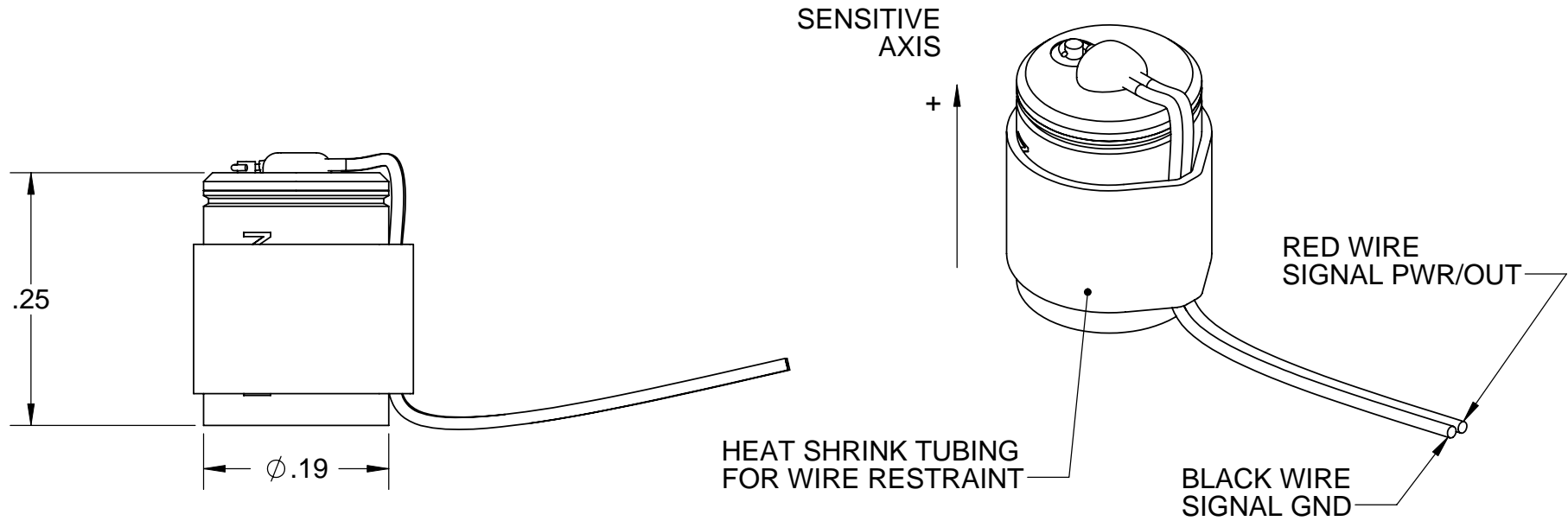


**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC IS PROHIBITED.

**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
-----	-----	-------------	---------	-----	------



- 3. WIRE LENGTH: 6 INCHES
- 2. SENSITIVITY: 10mV/g ±5%
- 1. MASS 0.6 GRAMS

DRILL HOLE SIZE	TOLERANCE	UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994.
.0135 THRU .125	+0.004 / -.001	REMOVE BURRS.
.1260 THRU .250	+0.005 / -.001	COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.
.2510 THRU .500	+0.006 / -.001	CHAM EXT THDS 45° TO MINOR DIA.
.5010 THRU .750	+0.008 / -.001	THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
.7510 THRU 1.000	+0.010 / -.001	THDS PER MIL-S-7742.
1.001 THRU 2.000	+0.012 / -.001	THDS PER MIL-S-7742.

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°
MATERIAL	
FINISH	
DO NOT SCALE DRAWING	

CONTRACT NO.	
APPROVALS	
ORIG	PML
CHK	
APP	
DATE	4/3/2007

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

TITLE:  
**OUTLINE DRAWING**

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3089A</b>	REV <b>3</b>
SCALE: 6:1		SOLIDWORKS	SHEET 1 OF 1

**PRELIMINARY 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	6	inch
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, NOM.	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, +10 VOLTS NOM.	+9 to +12	VDC
DISCHARGE TIME CONSTANT, NOM.	.5	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.