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DWG NO127-7705A11REV A21

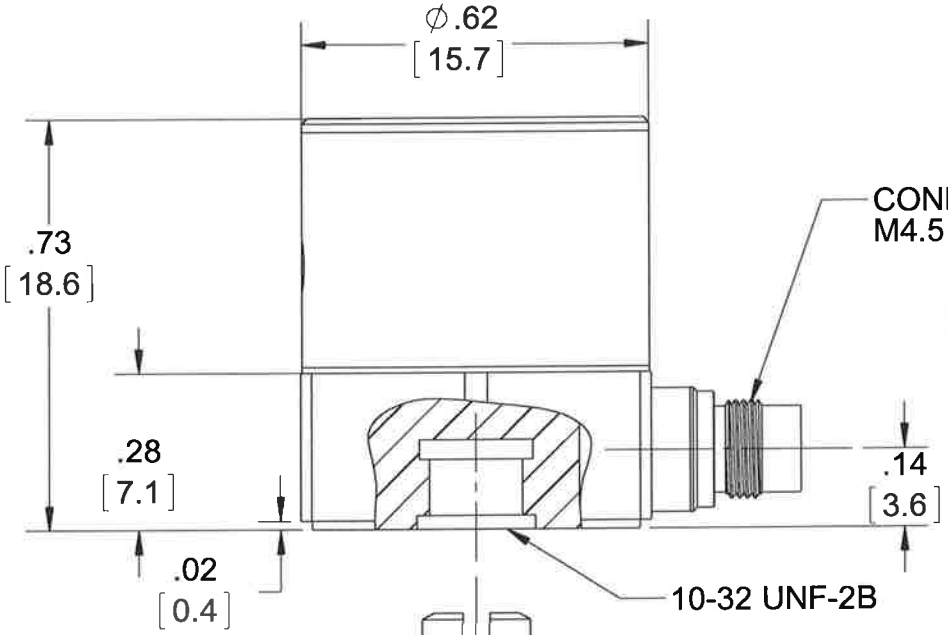
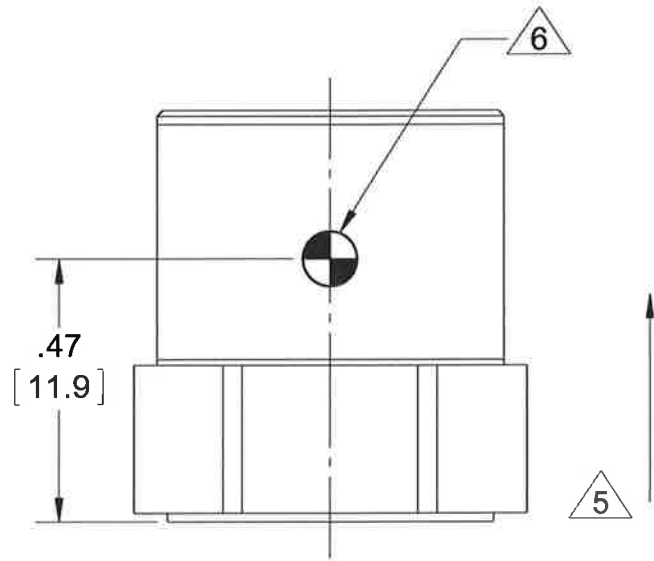
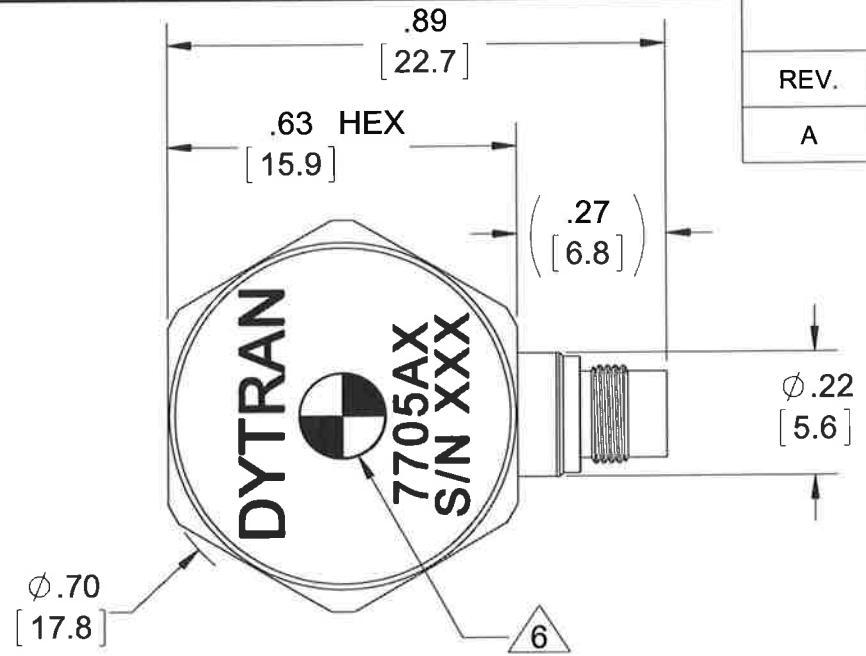
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MODEL	REV	ECN	DATE	INPUT RANGE
7705A1	A	10745	01/24/14	±200g
7705A2	A	10745	01/24/14	±40g
7705A3	A	10745	01/24/14	±20g

2

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REVISIONS				
REV.	ECN	DESCRIPTION	BY/DATE	CHK APPR
A	10745	INITIAL RELEASE	JS 01/24/14	 AS



CONNECTOR, 4-PIN
M4.5 X 0.35

PIN 4 - GROUND

KEY

PIN 1 - SIG OUTPUT

PIN 3 - N/C

PIN 2 - POWER

RECOMMENDED MOUNTING PREPARATION:
PREPARE FLAT MOUNTING SURFACE, Ø.65 [16.5] MIN, FLAT TO .001 TIR.
TAP 10-32 UNF-2B .200 [5.1] MIN. TORQUE TO 10-12 Lb-in.

- 6
- 5
- 4
- 3
- MARKING DENOTES LOCATION OF SENSING ELEMENT'S CENTER OF MASS
 - ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
 - MOUNTING STUD, 10-32, MODEL 6200, SUPPLIED.
 - MATES WITH MODEL 6776AXX CABLE (XX = LENGTH IN FEET).


- 2. HOUSING/CONNECTOR MATERIAL: TITANIUM ALLOY.
- 1. WEIGHT: 20 GRAMS, MAX.

NOTES: UNLESS OTHERWISE SPECIFIED

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.
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:
DECIMALS METRIC ANGLES
.XX ±.03 .X ± 0.8 °
.XXX ±.010 .XX ±0.25 ±1°

APPROVALS		DATE
ORIG	LN	08/29/13
CHK		11/28/14
APP	AS	11/28/14

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION
USA





Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION
DRAWING, 7705A SERIES**

SIZE B	CAGE CODE 2W033	DWG NO 127-7705A	REV A
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SCALE: 4:1

SHEET 1 OF 1

Model Number 7705A1		PERFORMANCE SPECIFICATIONS				DOC NO PS7705A1																
		DUAL ELEMENT ACCELEROMETER				REV B ECN 10971, 05/06/14																
		<ul style="list-style-type: none">• DUAL ELEMENT TECHNOLOGY• EXTENDED LOW FREQUENCY RESPONSE (0 Hz to 10kHz)• HERMETICALLY SEALED				This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (Gpeak)</th><th>Maximum Shock (Gpeak)</th><th>Noise Broadband (grms)</th></tr><tr><td>7705A2</td><td>50</td><td>±40</td><td>5,000</td><td>0.002</td></tr><tr><td>7705A3</td><td>100</td><td>±20</td><td>5,000</td><td>0.0008</td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Maximum Shock (Gpeak)	Noise Broadband (grms)	7705A2	50	±40	5,000	0.002	7705A3	100	±20	5,000	0.0008
Model	Sensitivity (mV/g)	Range (Gpeak)	Maximum Shock (Gpeak)	Noise Broadband (grms)																		
7705A2	50	±40	5,000	0.002																		
7705A3	100	±20	5,000	0.0008																		
		New type of accelerometer from Dytran Instruments Inc. combines the DC output of variable capacitance element with excellent high frequency response of piezoelectric sensor.				Refer to the performance specifications of the products in this family for detailed description																
Both outputs are electrically summed up and seamlessly superimposed on each other to provide the broadest frequency response from a single output pin.						Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Model 6200 mounting stud (10-32 to 10-32) Qty. 1																
PHYSICAL		Notes: [1] Measured at 100Hz, 1 Grms per ISA RP 37.2. [2] Measure using zero-based straight line method, % of F.S. or any lesser range. [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier. [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.																				
Weight, Max.		[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.																				
Mounting		[2] Measure using zero-based straight line method, % of F.S. or any lesser range.																				
Connector		[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.																				
Housing		[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.																				
Type																						
Material																						
PERFORMANCE																						
Sensitivity, ±10% [1]																						
Acceleration Range																						
Frequency Response, ±10%																						
Resonance Frequency																						
Transverse Sensitivity																						
Output Noise, Broadband, Max.																						
Spectral Noise																						
1Hz																						
10Hz																						
100Hz																						
1kHz																						
10kHz																						
ENVIRONMENTAL																						
Maximum Mechanical Shock																						
Bias Temperature Shift, Max [3]																						
Bias Calibration Error																						
Operating Temperature																						
Scale Factor Temperature Shift [3]																						
Seal																						
POWER																						
Compliance Voltage																						
Current Range																						
Output Bias Voltage, Typical																						
Output Impedance, Nom.																						
Power Supply Rejection Ratio																						



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