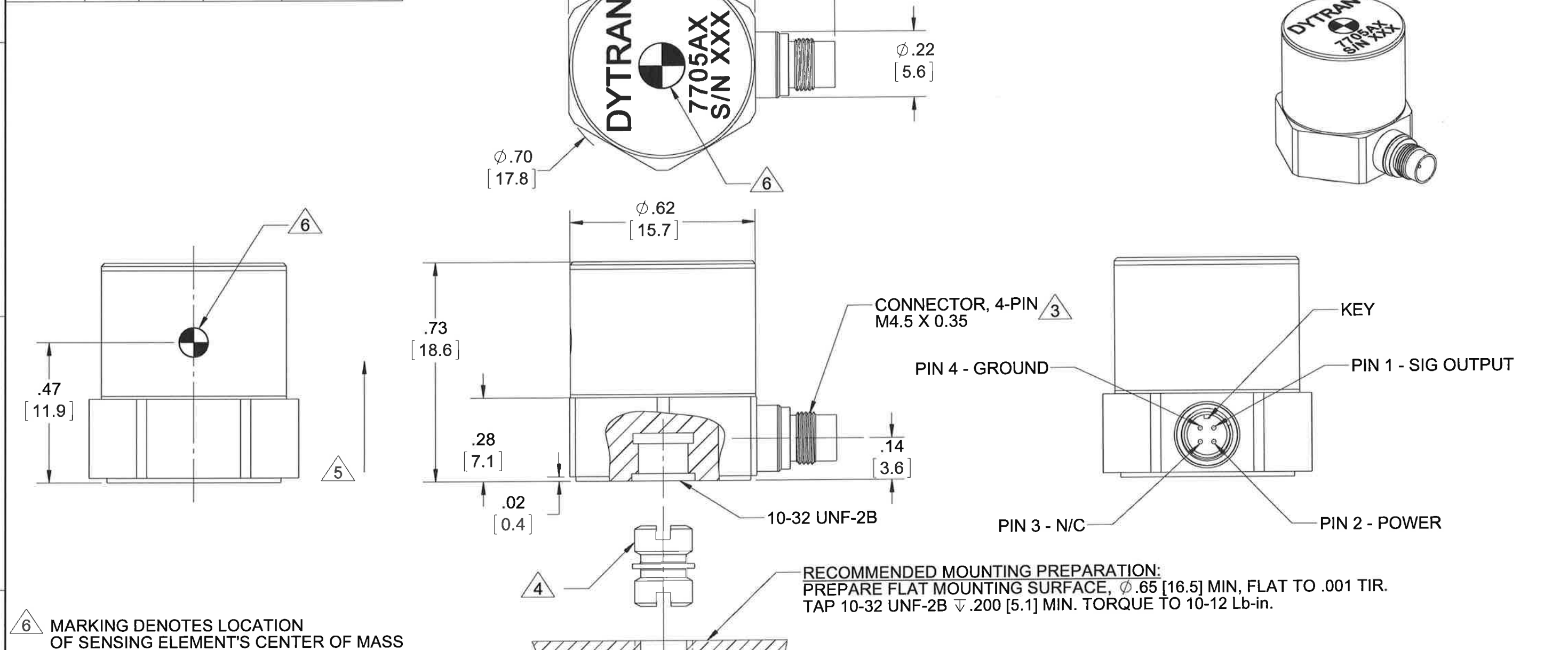



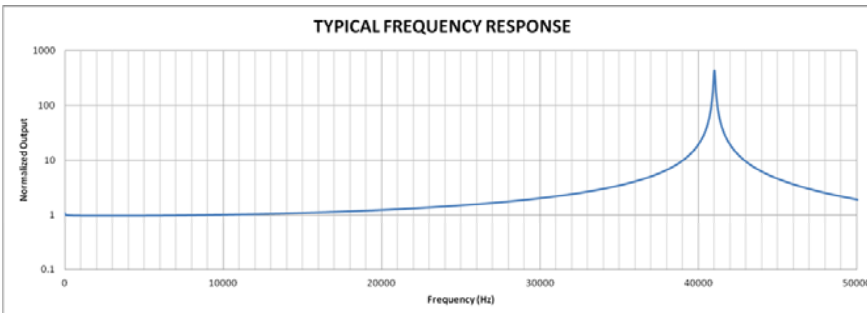
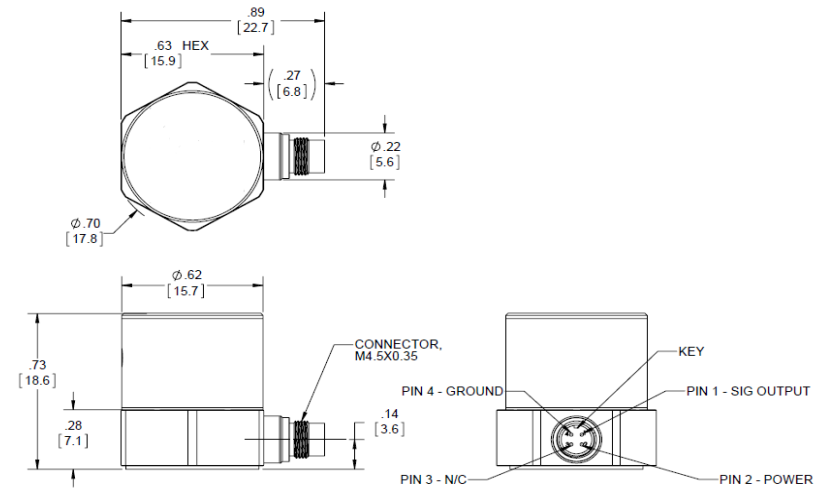
PROPRIETARY AND CONFIDENTIAL				
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MODEL	REV	ECN	DATE	INPUT RANGE
7705A1	A	10745	01/24/14	±200g
7705A2	A	10745	01/24/14	±40g
7705A3	A	10745	01/24/14	±20g

DWG NO		127-7705A		SH	1	REV	A
REV.		ECN					
A		10745		IN			



- 6 MARKING DENOTES LOCATION OF SENSING ELEMENT'S CENTER OF MASS
- 5 ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
- 4 MOUNTING STUD, 10-32, MODEL 6200, SUPPLIED.
- 3 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.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE:		DECIMALS METRIC ANGLES .XX ±.03 .X ± 0.8 ° ±1° .XXX ±.010 .XX ±0.25	
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.		APPROVALS DATE		TITLE: OUTLINE/INSTALLATION DRAWING, 7705A SERIES	
DO NOT SCALE DRAWING		ORIG	LN	08/29/13	SIZE B
		CHK	AS	11/28/14	CAGE CODE 2W033
		APP	AS	11/28/14	DWG NO 127-7705A
		THIRD ANGLE PROJECTION		SCALE: 4:1	REV A
				SHEET 1 OF 1	

Model Number 7705A2		PERFORMANCE SPECIFICATIONS				DOC NO PS7705A2																
		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				<p>This family also includes:</p> <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>7705A1</td><td>10</td><td>±200</td><td>5,000</td><td>0.008</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)	7705A1	10	±200	5,000	0.008	7705A3	100	±20	5,000	0.0008
Model	Sensitivity (mV/g)	Range (Gpeak)	Maximum Shock (Gpeak)	Noise Broadband (grms)																		
7705A1	10	±200	5,000	0.008																		
7705A3	100	±20	5,000	0.0008																		
						Refer to the performance specifications of the products in this family for detailed description																
						<p>Supplied Accessories:</p> <p>1) Accredited calibration certificate (ISO 17025)</p> <p>2) Model 6200 mounting stud (10-32 to 10-32) Qty. 1</p>																
						<p>Notes:</p> <p>[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.</p> <p>[2] Measure using zero-based straight line method, % of F.S. or any lesser range.</p> <p>[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.</p> <p>[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.</p>																
PHYSICAL		ENGLISH		SI																		
Weight, Max.		0.53	oz	15	grams																	
Mounting		10-32 Tapped Hole		10-32 Tapped Hole																		
Connector	Type	4-pin, M4.5X0.35		4-pin, M4.5X0.35																		
Housing	Material	Titanium		Titanium																		
PERFORMANCE																						
Sensitivity, ±10% [1]		50	mV/g	5.1	mV/m/s ²																	
Acceleration Range		±40	Gpeak	±392	m/s ² peak																	
Frequency Response, ±10%		0 to 10,000	Hz	0 to 10,000	Hz																	
Resonance Frequency		>38	kHz	>38	kHz																	
Transverse Sensitivity		<3	%	<3	%																	
Output Noise, Broadband, Max.		0.002	Grms	0.0196	m/s ² rms																	
Spectral Noise	1Hz	400	µGrms/sqr(Hz)	3,924	µm/s ² rms/sqr(Hz)																	
	10Hz	62	µGrms/sqr(Hz)	608	µm/s ² rms/sqr(Hz)																	
	100Hz	24	µGrms/sqr(Hz)	235	µm/s ² rms/sqr(Hz)																	
	1kHz	6	µGrms/sqr(Hz)	59	µm/s ² rms/sqr(Hz)																	
	10kHz	5	µGrms/sqr(Hz)	49	µm/s ² rms/sqr(Hz)																	
ENVIRONMENTAL																						
Maximum Mechanical Shock		5,000	Gpeak	49,050	m/s ²																	
Bias Temperature Shift, Max [3]		56	(ppm of span)/°F	101	(ppm of span)/°C																	
Bias Calibration Error		1.5	% of span	1.5	% of span																	
Operating Temperature		-60 to +250	°F	-51 to 121	°C																	
Scale Factor Temperature Shift [3]		-83 to +83	ppm/°F	-150 to +150	ppm/°C																	
Seal		Hermetic		Hermetic																		
POWER																						
Compliance Voltage		+5 to +28	VDC	+5 to +28	VDC																	
Current Range		5 to 10	mA DC	5 to 10	mA DC																	
Output Bias Voltage, Typical		2.45	VDC	2.45	VDC																	
Output Impedance, Nom.		1	Ω	1	Ω																	
Power Supply Rejection Ratio		>65	dB	>65	dB																	
																						
																						

Units o

Units o



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com
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