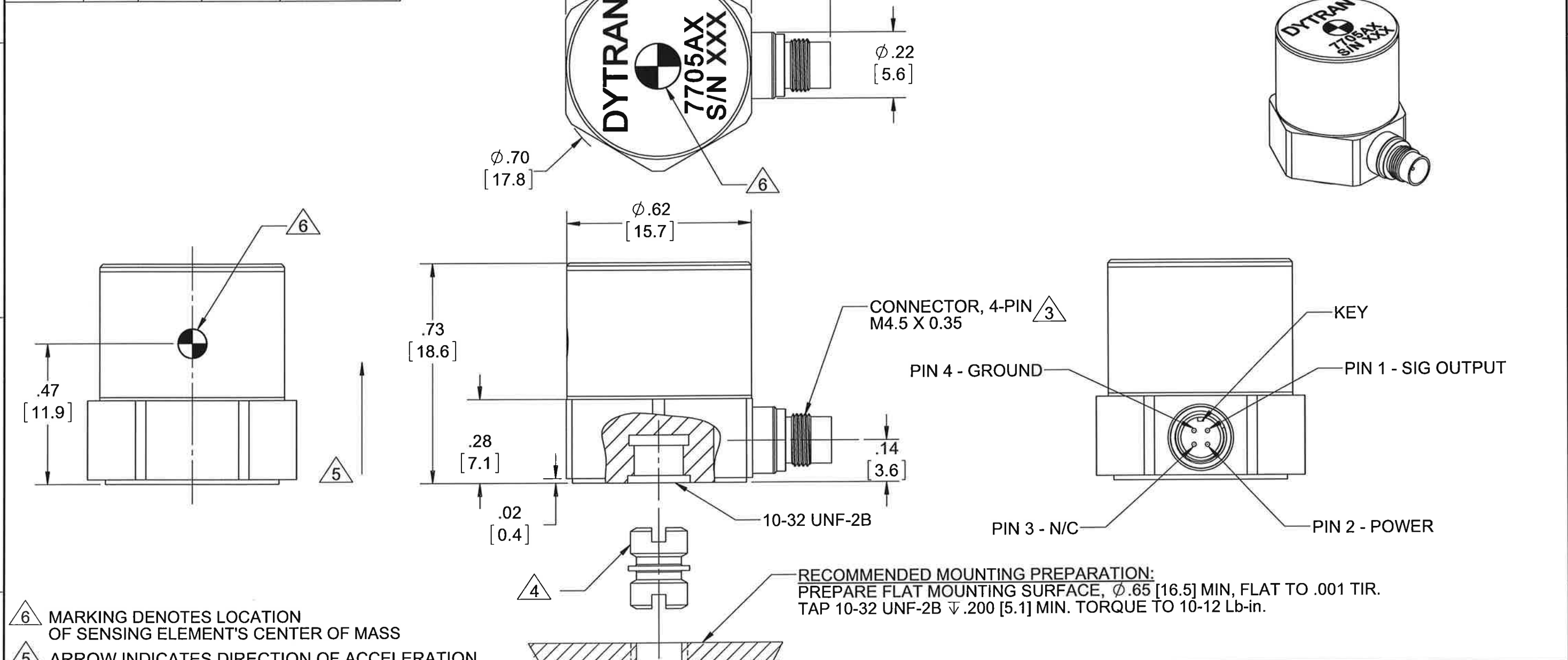





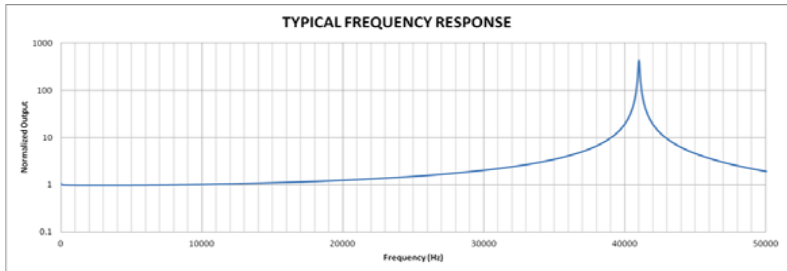
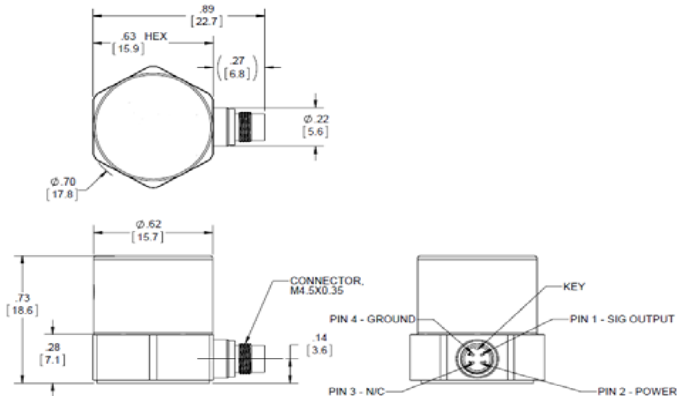

PROPRIETARY AND CONFIDENTIAL				
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MODEL	REV	ECN	DATE	INPUT RANGE
7705A1	B	11048	09/04/14	±200g
7705A2	B	11048	09/04/14	±40g
7705A3	B	11048	09/04/14	±20g

REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10745	INITIAL RELEASE	JS 01/24/14	DV	AS
B	11048	SEE ECN	EM 06/12/14	MH	✓



- 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 4 PIN TO (2) BNC OR 6895AXX 4 PIN TO CUT OFF 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:			 <div>MASTER COPY ONLY IF IN RED</div>		
	DECIMALS	METRIC	ANGLES			
	.XX ±.03	.X ± 0.8	±1°			
	.XXX ±.010	.XX ±0.25				
	APPROVALS					
ORIG	LN	08/29/13		TITLE: OUTLINE/INSTALLATION DRAWING, 7705A SERIES		
CHK	DV	01/28/14				
APP	AS	01/28/14				
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA 				
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.	63/		SIZE B	CAGE CODE 2W033	DWG NO 127-7705A	REV B
			SCALE: 4:1	SHEET 1 OF 1		

Model Number 7705A2		PERFORMANCE SPECIFICATIONS				DOC NO PS7705A2																
		DUAL ELEMENT ACCELEROMETER				REV D, ECN 15839, 07/28/20																
		<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 (g pk)</th><th>Maximum Shock (g pk)</th><th>Noise Broadband (g RMS)</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 (g pk)	Maximum Shock (g pk)	Noise Broadband (g RMS)	7705A1	10	±200	5,000	0.008	7705A3	100	±20	5,000	0.0008
Model	Sensitivity (mV/g)	Range (g pk)	Maximum Shock (g pk)	Noise Broadband (g RMS)																		
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																
		Supplied Accessories: <ul style="list-style-type: none">1) Accredited calibration certificate (ISO 17025)2) Model 6200 mounting stud (10-32 to 10-32) Qty. 13) Model 6693 mounting stud (10-32 to M5) Qty. 1																				
		Notes: <ul style="list-style-type: none">[1] Measured at 100Hz, 1 g RMS per ISA RP 37.2.[2] Measure using zero-based straight line method, % of F.S. or any lesser range.[3] 0 to 1000Hz[4] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.																				
PHYSICAL Weight, Max. Mounting Connector Housing		Type Material																				
		ENGLISH		SI																		
		0.53	oz	15	grams																	
		10-32 Tapped Hole		10-32 Tapped Hole																		
		4-pin, M4.5X0.35		4-pin, M4.5X0.35																		
		Titanium		Titanium																		
PERFORMANCE Sensitivity, ±10% [1] Acceleration Range Frequency Response, ±10% Resonance Frequency Linearity [2] Transverse Sensitivity Output Noise, Broadband, Max. Phase shift mismatch, Max Absolute phase shift, Max [3] Base Strain Bias Offset		Max																				
		50	mV/g	5.1	mV/m/s ²																	
		±40	g pk	±392	m/s ² g pk																	
		0 to 10,000	Hz	0 to 10,000	Hz																	
		>38	kHz	>38	kHz																	
		1	% F.S.	1	% F.S.																	
		<3	%	<3	%																	
		0.002	g RMS	0.0196	m/s ² RMS																	
		+/-2	degrees	+/-2	degrees																	
		+/-5	degrees	+/-5	degrees																	
		0.0004	g/με	0.0039	m/s ² /με																	
		0.2	g's	1.96	m/s ²																	
ENVIRONMENTAL Maximum Mechanical Shock Bias Temperature Shift, Max Bias Calibration Error Operating Temperature Thermal Coefficient Seal																						
		5,000	g pk	49,050	m/s ² pk																	
		56	(ppm of span)/°F	101	(ppm of span)/°C																	
		1.5	% of span	1.5	% of span																	
		-60 to +250	°F	-51 to 121	°C																	
		0.06	%/°F	0.12	%/°C																	
		Hermetic		Hermetic																		
POWER Compliance Voltage Current Range Output Bias Voltage, Typical Output Impedance, Nom. Power Supply Rejection Ratio Electrical Isolation (Case)																						
		+5 to +28	VDC	+5 to +28	VDC																	
		5 to 10	mA DC	5 to 10	mA DC																	
		2.45	VDC	2.45	VDC																	
		1	Ω	1	Ω																	
		>65	dB	>65	dB																	
		Ground		Ground																		
																						
																						
						Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-7705A for more information.																
		21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com For permission to reprint this content, please contact info@dytran.com																				