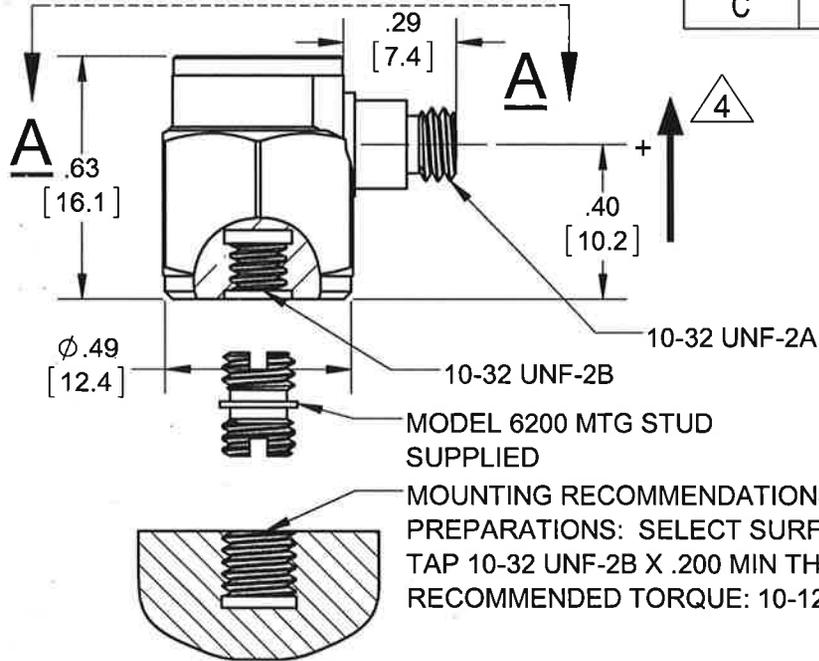


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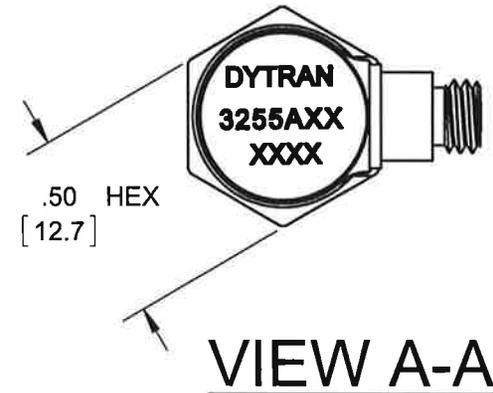
**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	8293	SEE ECN	LN, 02/13/12	RA	DV
C	11862	REDESIGN WITH CHANGES	RA, 07/16/15	EM	LN



MODEL 6200 MTG STUD SUPPLIED

MOUNTING RECOMMENDATIONS:  
 PREPARATIONS: SELECT SURFACE FLAT TO .001 TIR  
 TAP 10-32 UNF-2B X .200 MIN THD DEPTH.  
 RECOMMENDED TORQUE: 10-12 LB-IN



4 ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

3. OPERATING TEMPERATURE -60 °F(-51 °C) TO 225 °F(107 °C).

2. HOUSING MATERIAL: TITANIUM

1. MAX WEIGHT: 10 GRAMS

MODEL	SENSITIVITY
3255A1	10 mV/g
3255A2	100 mV/g
3255A3	500 mV/g
3255A4	50 mV/g
3255A5	20 mV/g
3255A6	200 mV/g

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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.

63  
 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:  
 INCHES METRIC ANGLES  
 .XX ± .03 .X ± 0.8 ± 1°  
 .XXX ± .010 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	JS	02/05/07
CHK	CES	02/09/07
APP	CES	02/09/07
APP		

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

**MASTER COPY ONLY IF IN RED**

TITLE:  
**OUTLINE/INSTALLATION, DRAWING, 3255A SERIES ACCEL**

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-3255A</b>	<b>C</b>
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1	

<b>Model Number</b> 3255A5	<b>PERFORMANCE SPECIFICATIONS</b>	<b>DOC NO</b> PS3255A5
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**IEPE ACCELEROMETER**

REV C, ECN 11862, 07/23/15



- HERMETICALLY SEALED
- IDEAL LOW FREQUENCY RESPONSE

**PHYSICAL**

Weight  
Connector  
Mounting Provision  
Material, Housing/Connector  
Sensing Element  
Element Style

Type  
Tapped Hole

ENGLISH		SI	
0.35	oz	10.0	grams
10-32		10-32	
10-32 X .150 ↓		10-32 X .150 ↓	
Titanium		Titanium	
Ceramic		Ceramic	
Planar Shear		Planar Shear	

**PERFORMANCE**

Sensitivity, ± 5% [1]  
Range for ± 5 Volts Output  
Frequency Response, ± 5%  
Resonant Frequency  
Broad Band Resolution  
Linearity [2]  
Maximum Transverse sensitivity  
Strain Sensitivity @ 250µε

20	mV/g	2	mV/m/s <sup>2</sup>
± 250	g	± 2452	m/s <sup>2</sup>
1 to 10000	Hz	1 to 10000	Hz
> 36	kHz	> 36	kHz
0.002	Grms	0.020	m/s <sup>2</sup> rms
± 1	% F.S.	± 1	% F.S.
5	%	5	%
0.002	g/µε	0.02	m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

Maximum Vibration  
Maximum Shock  
Temperature Range  
Seal

500	Gpeak	4905	m/s <sup>2</sup> peak
2000	Gpeak	19620	m/s <sup>2</sup> peak
-60 to +250	*F	-51 to 121	*C
Hermetic		Hermetic	

**ELECTRICAL**

Supply Current Range [3]  
Compliance Voltage Range  
Output Impedance, Typ  
Bias Voltage  
Discharge Time Constant

2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
100	Ω	100	Ω
+11 to +13	VDC	+11 to +13	VDC
0.5 to 1.5	Sec	0.5 to 1.5	Sec

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response, ±5 % (Hz)	Time Constant (Sec)	Operating Temp (*F)
3255A1	10	1 to 10000	0.5 to 1.5	-60 to +250
3255A2	100	1 to 10000	0.5 to 1.5	-60 to +250
3255A3	500	1 to 10000	0.5 to 1.5	-60 to +225
3255A4	50	1 to 10000	0.5 to 1.5	-60 to +250
3255A6	200	1 to 10000	0.5 to 1.5	-60 to +225

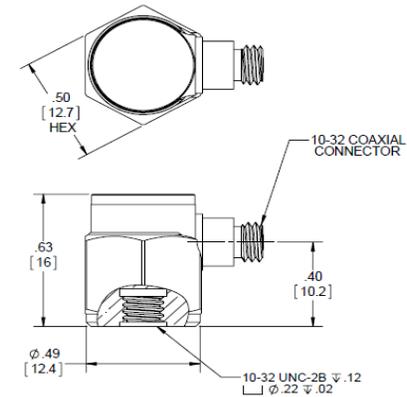
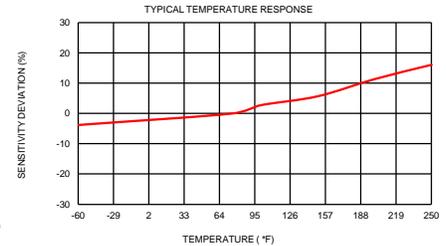
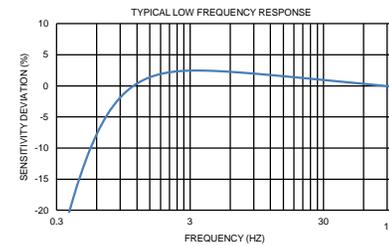
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud, qty 1

**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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3255A for more information.



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