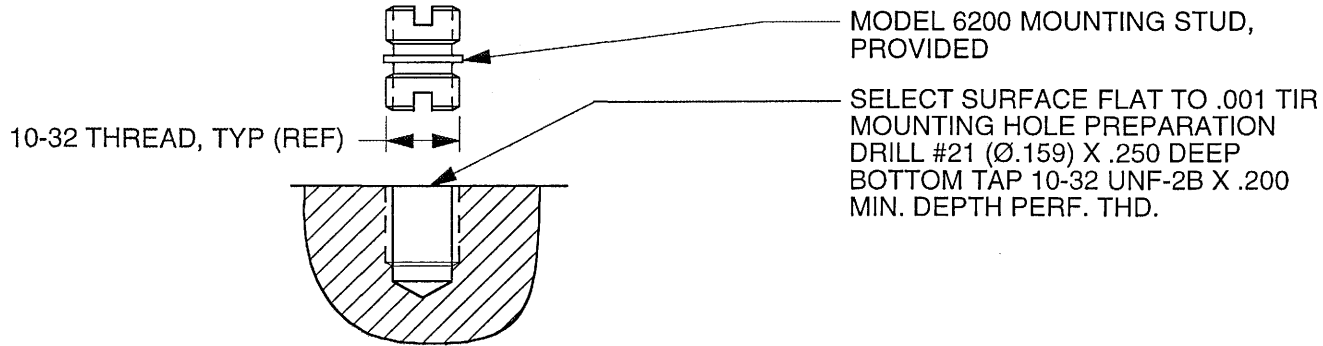
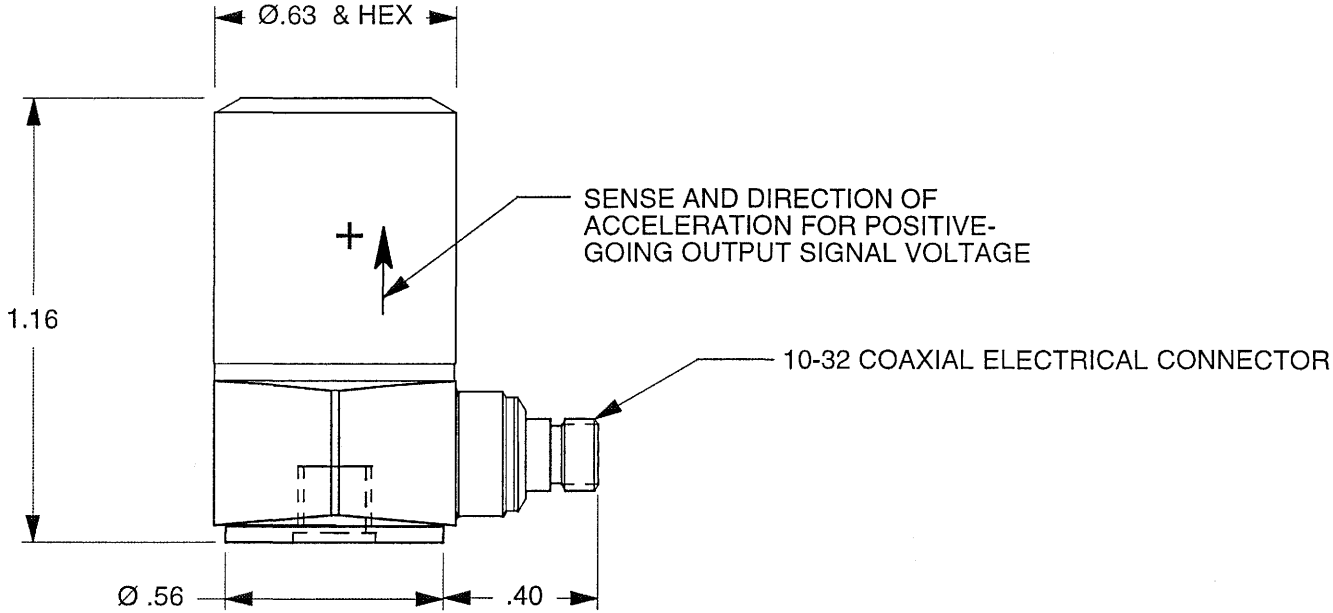


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	4739	REMOVED: WELD GROOVES	RLA 6/27/07	CS	CS



- WEIGHT-58 GRAMS.
- CASE MATERIAL-300 SERIES STAINLESS STEEL.
- MOUNTING TORQUE ON 5/8 HEX: 20 TO 25 LB-INCHES. DO NOT OVER TORQUE.

		<h1>MASTER ONLY IF IN RED</h1>		CHATSWORTH, CA.	
SCALE	2X	REV	-	DATE	SEE REV BLOCK
DATE	1/10/98	PART NO.	-	ECN	-
DRAWN	N.C.	CHECKED	R.A.	MAT'L	-
APPROVED	N.C.	8/6/02	NEXT ASSEMBLY	USED ON	-
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3100D24				127-3100D24	
				SHEET 1 OF 1	

Model Number
3100D24

PERFORMANCE SPECIFICATIONS

DOC NO
PS3100D24

IEPE ACCELEROMETER

REV B, ECN 13379, 03/28/17



- HIGH SENSITIVITY
- HERMETICALLY SEALED
- CASE ISOLATED

PHYSICAL

Weight, Max.
Connector, Type
Material, Housing & Connector
Sensing Element
Mounting Provision

ENGLISH		SI	
1.9	oz	55	grams
10-32 UNF-2A		10-32 UNF-2A	
300 Series S.S.		300 Series S.S.	
Ceramic		Ceramic	
10-32 UNF-2A		10-32 UNF-2A	

PERFORMANCE

Sensitivity, $\pm 10\%$ [1]
Range for ± 5 Volts Output
Frequency Response, $\pm 5\%$
, $\pm 10\%$
Resonant Frequency
Broadband Resolution, Max.
Spectral Noise, Typ.
Linearity [2]
Transverse Sensitivity, Max.

1,000	mV/g	102	$m/m/s^2$
± 5	g	± 49.1	m/s^2
0.6 to 1000	Hz	0.6 to 1000	Hz
0.5 to 5000	Hz	0.5 to 5000	Hz
>26	kHz	>26	kHz
0.000075	Grms	0.0007	m/s^2 rms
1 Hz	μ Grms/v(Hz)	8.5	$\mu m/s^2$ rms/v(Hz)
10 Hz	μ Grms/v(Hz)	42.5	$\mu m/s^2$ rms/v(Hz)
100 Hz	μ Grms/v(Hz)	32.0	$\mu m/s^2$ rms/v(Hz)
1000 Hz	μ Grms/v(Hz)	6.2	$\mu m/s^2$ rms/v(Hz)
± 2	% F.S.	± 2	% F.S.
5	%	5	%

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Coefficient of Thermal Sensitivity
Seal

± 100	Gpeak	± 981	m/s^2 peak
± 200	Gpeak	± 1962	m/s^2 peak
-60 to +250	$^{\circ}$ F	-51 to 121	$^{\circ}$ C
0.03	%/ $^{\circ}$ F	0.06	%/ $^{\circ}$ C
Hermetic		Hermetic	

ELECTRICAL

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

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 2.0	Sec	0.5 to 2.0	Sec
10	G Ω ,min	10	G Ω ,min

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp ($^{\circ}$ F)

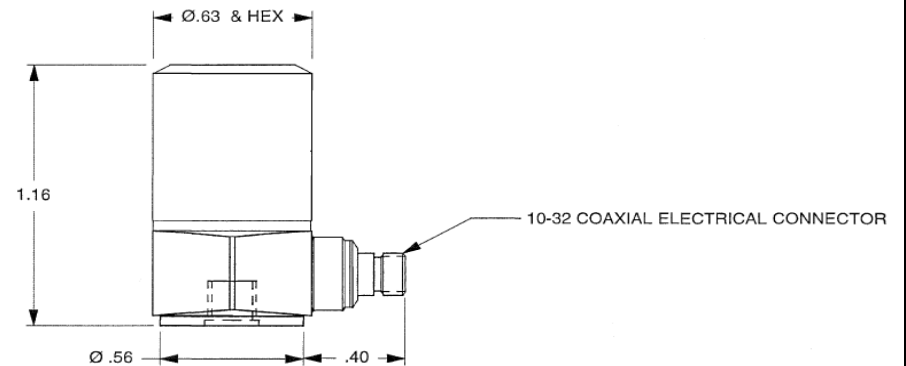
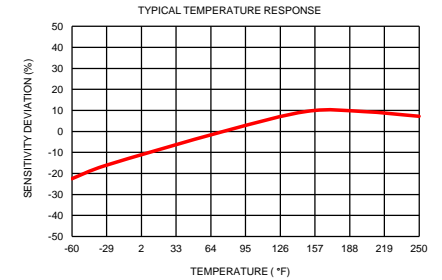
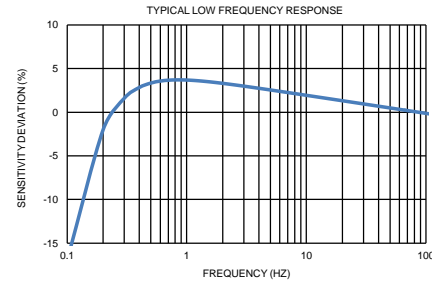
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud, Model 6200 (10-32 UNF-2A to 10-32 UNF-2A), Qty: 1
- 3) Thermal Boot, Model 6215, Qty: 1

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measured 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 127-3100D24 or more information.



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