

**CONTROLLED DOCUMENT**  
Do not alter or destroy!

- 3. MATERIAL FOR HOUSING & CONNECTOR - 316L STAINLESS STEEL.
- 2. MOUNTING TORQUE - 15 LB.-IN.
- 1. WEIGHT - 6.8 GRAMS

**EXCEPT AS OTHERWISE NOTED**  
ALL DIMENSIONS IN INCHES  
TOLERANCE: .XXX = ± .XX = ± .01  
SURFACE FINISH EXCEPT AS NOTED ✓  
BREAK EDGES TO DEBURR RADIUS OR CHAMFER  
△ THESE DIAS ⊙ TO T.I.R.  
FILLETS - MAX RAD.

<b>DYTRAN</b> INSTRUMENTS, INC.		<b>MASTER</b> ONLY IF IN RED		JUN 30 1998		CHATSWORTH, CA.	
SCALE	4X	REV	A	DATE	6/23/98	ECN	-
DATE	12/7/95	PART NO.					
DRAWN	N.C.	CHECKED	N.C.	MAT'L			
APPROVED	[Signature]		NEXT ASSEMBLY	-		USED ON	SERIES 3030B
TITLE						DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL SERIES 3030B						127-3030B	
						SHEET 1 OF 1	

<b>Model Number</b> 3030B4	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS3030B4
<b>MINIATURE IEPE ACCELEROMETER</b>		REV B, ECN 7058, 09/02/10



- **MINIATURE SIZE**
- **EXCELLENT LINEARITY**
- **HERMETICALLY SEALED**

**PHYSICAL**

Weight  
Size  
Connector  
Mounting Provision  
Material  
Element Style

Hex x Height  
Top Mounted  
Integral Stud  
Accelerometer and Connector

ENGLISH		SI	
0.24	oz	6.8	grams
0.375 x 0.67	Inches	9.525 x 17.01	mm
10-32 Micro Coax		10-32 Micro Coax	
10-32 (UNF-2A)		10-32 (UNF-2A)	
		304L	
		Quartz Shear	

**PERFORMANCE**

Sensitivity, ±5% [1]  
Range F.S for ± 5 Volts Output  
Frequency Response, ±5%  
Resonant Frequency, Nom  
Equivalent Electrical Noise Floor  
Linearity [2]  
Maximum Transverse sensitivity  
Strain Sensitivity @ 250µε

10	mV/g	1	mV/m/s <sup>2</sup>
±500	g	±4905	m/s <sup>2</sup>
2 to 10000	Hz	2 to 10000	Hz
30	kHz	30	kHz
0.0036	Grms	0.035	m/s <sup>2</sup> rms
± 1%	% F.S.	± 1%	% F.S.
5	%	5	%
0.003	g/µε	0.03	m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

Maximum Vibration  
Maximum Shock  
Temperature Range  
Seal, Hermetic

±1000	Gpeak	±9810	m/s <sup>2</sup> peak
±3000	Gpeak	±29430	m/s <sup>2</sup> peak
-60 to +250	*F	-51 to 121	*C
Welded/Glass To Metal		Welded/Glass To Metal	

**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
7.5 to 11	VDC	7.5 to 11	VDC
0.5 to 1	Sec	0.5 to 1	Sec

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (*F)
3030B5	10	5 to 10000	0.1 to 0.15	-60 to 250
3030B5H	10	5 to 10000	0.1 to 0.15	-60 to 325

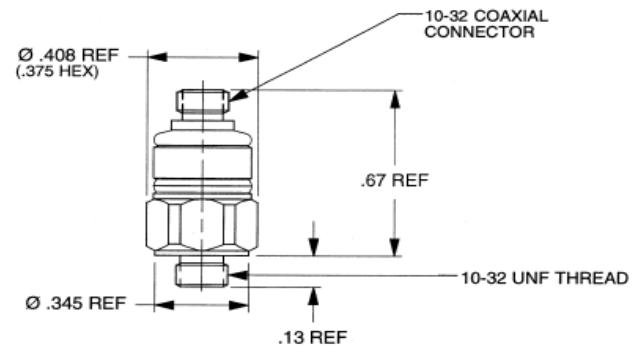
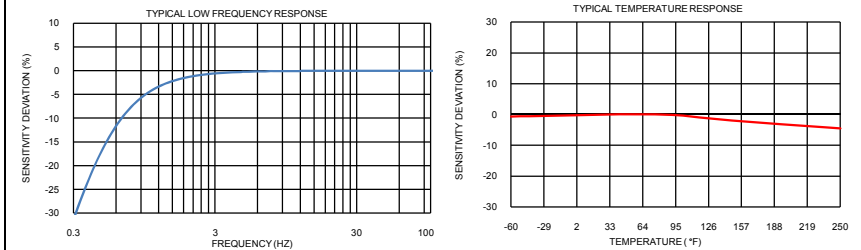
Please refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)

**Notes:**

- [1] Measure 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. Refer to 127-3030B for more information.



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