

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.

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

Model Number
3030B4



PERFORMANCE SPECIFICATION

DOC NO
PS3030B4

MINIATURE IEPE ACCELEROMETER

REV C, ECN 10075, 06/21/13



- 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		304L	
Quartz Shear		Quartz Shear	

PERFORMANCE

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

10	mV/g	1	mV/m/s ²
± 500	g	± 4905	m/s ²
2 to 10000	Hz	2 to 10000	Hz
30	kHz	30	kHz
0.0036	Grms	0.035	m/s ² rms
$\pm 1\%$	% F.S.	$\pm 1\%$	% F.S.
5	%	5	%
0.003	g/ $\mu\epsilon$	0.03	m/s ² / $\mu\epsilon$

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal, Hermetic

± 1000	Gpeak	± 9810	m/s ² peak
± 3000	Gpeak	± 29430	m/s ² 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 0.3	-60 to 250
3030B5H	10	5 to 10000	0.1 to 0.3	-60 to 325

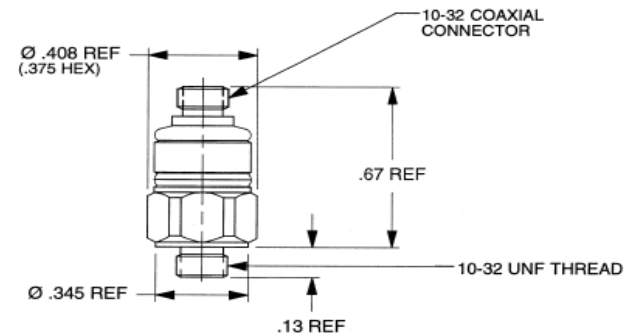
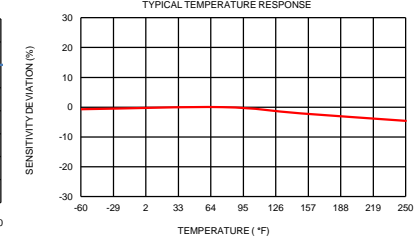
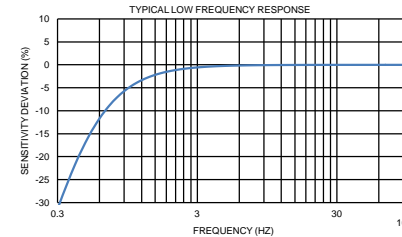
Please refer to the performance specifications of the products in this family for detailed description

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.



Presented by: Absolute Gauge Technologies
 sales@absolutegauge.com; www.absolutegauge.com,
 Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008