

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

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

|   |            |                                |      |                    |                |
|---|------------|--------------------------------|------|--------------------|----------------|
|   |            | <h1>MASTER ONLY IF IN RED</h1> |      | CHATSWORTH, CA.    |                |
| SCALE   | 4X         | REV                            | A    | DATE               | 1/29/07        |
| DATE  | 12/7/95    | ECN                            | 4538 | PART NO.           | -              |
| DRAWN   | N.C.       | CHECKED                        | ces  | MAT'L              | -              |
| APPROVED  | CE 1.29.07 | NEXT ASSEMBLY                  | -    | USED ON            | SERIES 3030B5H |
| TITLE   |            |                                |      | DWG NO.            |                |
| OUTLINE/INSTALLATION DRAWING,<br>MODEL SERIES 3030B5H |            |                                |      | <b>127-3030B5H</b> |                |
| SHEET 1 OF 1  |            |                                |      |                    |                |

|                                |                                  |                            |
|--------------------------------|----------------------------------|----------------------------|
| <b>Model Number</b><br>3030B5H | <b>PERFORMANCE SPECIFICATION</b> | <b>DOC NO</b><br>PS3030B5H |
|--------------------------------|----------------------------------|----------------------------|

|  |                                     |                           |
|--|-------------------------------------|---------------------------|
|  | <b>MINIATURE IEPE ACCELEROMETER</b> | REV B, ECN 6906, 07/07/10 |
|--|-------------------------------------|---------------------------|



- **MINIATURE SIZE**
- **EXCELLENT LINEARITY**
- **HERMETICALLY SEALED**
- **HIGH OPERATING TEMPERATURE**

**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, ±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>     |
| 5 to 10000 | Hz     | 5 to 10000 | Hz                   |
| 30         | kHz    | 30         | kHz                  |
| 0.0036     | Grms   | 0.0353     | 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 +325           | *F    | -54 to 163            | *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   |
| 0.1 to 0.15 | Sec   | 0.1 to 0.15 | Sec   |

**This family also includes:**

| Model  | Sensitivity (mV/g) | Frequency Response (Hz) | Time Constant (Sec) | Operating Temp (*F) |
|--------|--------------------|-------------------------|---------------------|---------------------|
| 3030B4 | 10                 | 2 to 10000              | 0.5 to 1            | -60 to 250          |
| 3030B5 | 10                 | 5 to 10000              | 0.1 to 0.15         | -60 to 250          |

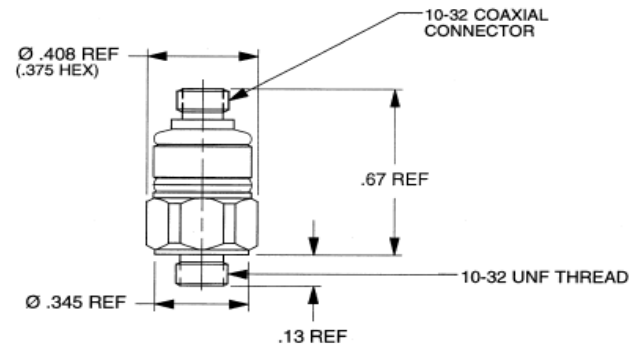
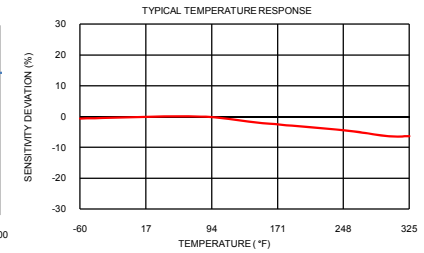
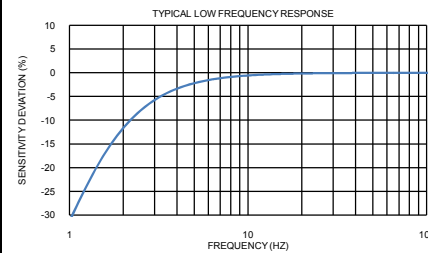
Please refer to the performance specifications of the products in this family for detailed description

**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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3030B5H for more information.



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