

## MODEL NUMBER 3256C PERFORMANCE SPECIFICATION PS3256C Accelerometer, Charge Mode REV A, ECN 5676, 12/22/08



Capacitance, nom

- HERMETICALLY SEALED
- HIGH CHARGE OUTPUT
- ROBUST DESIGN

|                                   |           | ENGLISH       |         | SI            |             |
|-----------------------------------|-----------|---------------|---------|---------------|-------------|
| PHYSICAL                          |           |               |         |               |             |
| Weight                            |           | 0.35          | oz      | 10.0          | grams       |
| Connector [1]                     | Type      | Coaxial       |         | Coaxial       | 1           |
|                                   | Material  | Titanium      |         | Titanium      | 1           |
| Housing                           | Material  | Titanium      |         | Titanium      | 1           |
|                                   | Isolation | Case Grounded |         | Case Grounded |             |
| Sensing Element                   | Material  | Ceramic       |         | Ceramic       |             |
|                                   | Mode      | Shear         |         | Shear         | 1           |
| PERFORMANCE                       |           |               |         |               |             |
| Sensitivity, ± 15% [2]            |           | 15            | pC/g    | 1.53          | pC/m/s^2    |
| Acceleration Range [3]            |           | [3]           | Gpeak   | [3]           | m/s^2 peak  |
| Frequency Range                   |           | [5] 5000      | Hz      | [5] 5000      | Hz          |
| Resonance Frequency               |           | 32            | kHz     | 32            | kHz         |
| Linearity [4]                     |           | ±1            | %       | ±1            | %           |
| Transverse Sensitivity Max        |           | 5             | %       | 5             | %           |
| ENVIRONMENTAL                     |           |               |         |               |             |
| Shock Max                         |           | 3000          | g pk    | 29430         | m/s^2       |
| Vibration Max                     |           | 600           | g pk    | 5886          | m/s^2       |
| Operating Temperature             |           | -60 to +375   | °F      | -51 to +190   | °C          |
| Seal                              |           | Hermetic      |         | Hermetic      | 1           |
| Magnetic Sensitivity at 100 Gauss |           | 0.00007       | g/Gauss | 0.0006867     | m/s^2/Gauss |
| Base Strain Sensitivity           |           | 0.05          | g/με    | 0.4905        | m/s^2/με    |
| ELECTRICAL                        |           |               |         |               |             |
|                                   |           |               | i       |               |             |

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| Model | Sensitivity (pC/g) | Range (Gpeak) | Resolution (Grms) | Oper. Temp(°F) |
|-------|--------------------|---------------|-------------------|----------------|
|       |                    |               |                   |                |
|       |                    |               |                   |                |
|       |                    |               |                   |                |
|       |                    |               |                   |                |

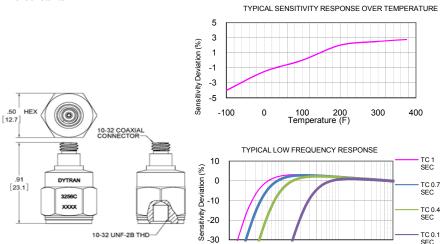
Please, refer to the performance specifications of the products in this family for detailed description

## Supplied Accessories:

- 1) Model 6200 Mounting Stud
- 2) Accredited Calibration Certificate (ISO 17025)

## Notes:

- [1] Mates with Dytran cable Model 6013AXX or 6019AXX (XX= Length in feet).
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
- [3] Depends On the Gain Setting Of The Charge Amplifier Used
- [4] Measured using zero-based best straight line method, % of F.S. or any lesser calibrated range.
- [5] Low Frequency Response Is the Function Of the Discharge Time Constant Of The Charge Amplifier Used. Please, Refer To The Plot Below For Frequency Response For Different Time Constants



0.1

10 Frequency (Hz) 100

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055B1 for more

