





- Y-AXIS DIRECTIONAL OUTPUT
- MINIATURE SIZE
- HERMETICALLY SEALED
- HIGH TEMPERATURE OPERATION

**PHYSICAL**

Weight, Max  
 Connector [3] Type  
 Mounting Provision : Tapped Hole  
 Material Housing  
 Connector  
 Element Style Material  
 Type

ENGLISH		SI	
Weight, Max	0.21 oz	6.0 grams	
Connector [3] Type	10-32 Coaxial	10-32 Coaxial	
Mounting Provision : Tapped Hole	10-32 UNF-2B	10-32 UNF-2B	
Material Housing	Alloy 600	Alloy 600	
Connector	Alloy X-750	Alloy X-750	
Element Style Material	Single Crystal	Single Crystal	
Type	Planar Shear	Planar Shear	

**PERFORMANCE**

Sensitivity [1]  
 Range F.S for ± 5 Volts Output  
 Frequency Range, ±10%  
 Resonant Frequency  
 Capacitance  
 Linearity [2]  
 Phase Response (±5°)  
 Maximum Transverse Sensitivity  
 Base Strain Sensitivity  
 Insulation resistance, (Connector pin to case)  
 Coefficient of Thermal Sens.  
 Ground Isolation  
 Output Polarity

Sensitivity [1]	1 to 2 pC/g	0.10 to 0.20 pC/m/s <sup>2</sup>
Range F.S for ± 5 Volts Output	[9] G's	[9] m/s <sup>2</sup>
Frequency Range, ±10%	[4] to 5000 Hz	[4] to 5000 Hz
Resonant Frequency	> 45 kHz	> 45 kHz
Capacitance	120 pF	120 pF
Linearity [2]	± 1% % F.S.	± 1% % F.S.
Phase Response (±5°)	[4] to 3000 Hz	[4] to 3000 Hz
Maximum Transverse Sensitivity	5 %	5 %
Base Strain Sensitivity	0.002 g/με	0.02 m/s <sup>2</sup> /με
Insulation resistance, (Connector pin to case)	at 75°F > 5 MQ	at 75°F > 5 Ω
	at 1000°F > 0.25 MQ	at 1000°F > 0.25 Ω
Coefficient of Thermal Sens.	0.02 %F	0.02 %F
Ground Isolation	Case Grounded	Case Grounded
Output Polarity	Negative	Negative

**ENVIRONMENTAL**

Maximum Vibration  
 Maximum Shock  
 Temperature Range  
 Seal  
 Radiation Exposure Limit (Integrated Neutron Flux)  
 Radiation Exposure Limit (Integrated Gamma Flux)

Maximum Vibration	±6000 G, peak	±58860 m/s <sup>2</sup> , peak
Maximum Shock	±10000 G, peak	±98100 m/s <sup>2</sup> , peak
Temperature Range	-60 to +1000 °F	-51 to +538 °C
Seal	Hermetic	Hermetic
Radiation Exposure Limit (Integrated Neutron Flux)	1.0E+10 N/cm <sup>2</sup>	1.0E+10 N/cm <sup>2</sup>
Radiation Exposure Limit (Integrated Gamma Flux)	1.0E+08 rad	1.0E+08 rad

**This family also includes:**

Model	Sensitivity (pC/g)	Range F.S (G's)	Output Polarity	Temperature (°F)
3316C3	1 to 2	-	Negative (X-Axis)	-60 to +1000
3316C5	1 to 2	-	Negative (Z-Axis)	-60 to +1000

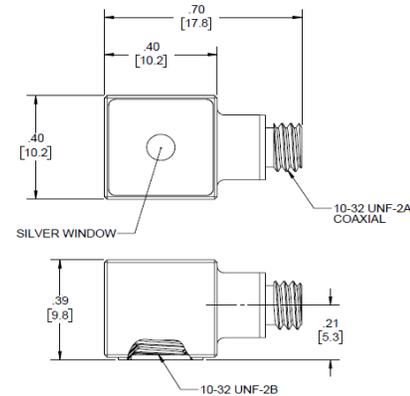
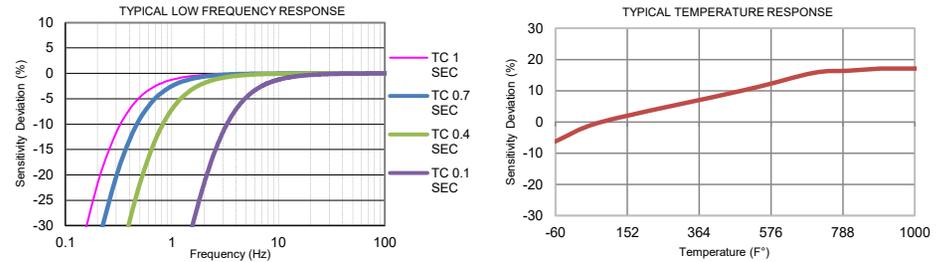
Refer to the performance specifications of the products in this family for detailed description.

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200S mounting stud (10-32 to 10-32), 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] Mates with Dytran cable 60016AXX and 6979AXX insulated hardline cables.
- [4] Low frequency response and phase response are a function of the discharge time constant of the charge amplifier used. See graph below for example.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.
- [6] Recommended charge amplifier: Dytran Models 4753B & 4754B, Series.
- [7] Isolation mounting base Model 6764 (triaxial) & Model 6998 (uniaxial) and mounting plate Model 6460 (triaxial) are available.
- [8] U.S. Patent number US 8,375,793 B2 applies to this unit.
- [9] This parameter depends on the gain settings of the charge amplifier used.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3316C4 for more information.

