

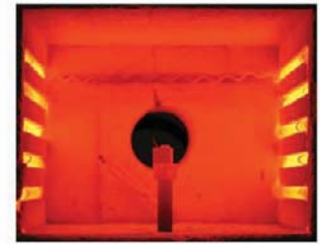


PRODUCT DATASHEET

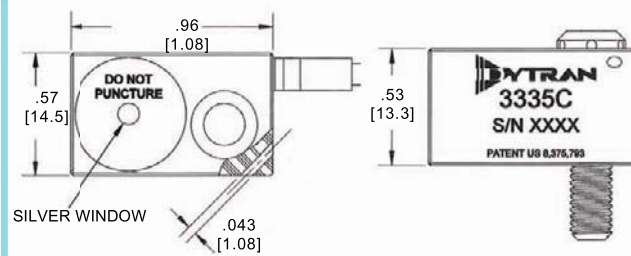
3335C ULTRA HIGH TEMPERATURE ACCELEROMETER

APPLICATIONS:

- ♦ Gas & turbine engine testing
- ♦ Automotive vibration studies
- ♦ Exhaust system NVH studies
- ♦ Gearbox monitoring
- ♦ Brake rotor testing
- ♦ ESS, HALT/HASS
- ♦ Turbo vibration testing
- ♦ Rocket engine testing
- ♦ Aerospace
- ♦ Vibration testing



SENSOR SNAPSHOT



High temp. operation: +1200°F (649°C)

Dimensions: .96 L X .57 W X .53 H

Charge mode, electrically isolated

Patented Silver Window™ Technology

WHAT THIS SENSOR DOES FOR YOU:

Ultra-high temperature testing environments, such as in exhaust and catalytic converter studies, demand durable and innovative sensors that can perform under extreme conditions. Model 3335C charge mode accelerometer combines a hermetically sealed Inconel™ housing with specially designed internal components to create a small, powerful sensor that operates up to 1200°F (649°C) with 1-2pC/g sensitivity and a 2,500Hz upper frequency range. Designed with our patented Silver Window™ technology which allows a diffused oxygen molecule to pass through at high temperatures, replenishing oxygen to the crystal while maintaining the hermetic seal integrity. This patented feature assures continued high temperature operation with minimal loss of insulation resistance due to oxygen deprivation.

DEVICE FEATURES:

Sustains severe thermal shocks & thrives in harsh conditions

Survives temperature excursions up to 1,400°F (760°C)

Robust integral stainless steel hard-line cable

High performance and long durability

10-32 axial connector

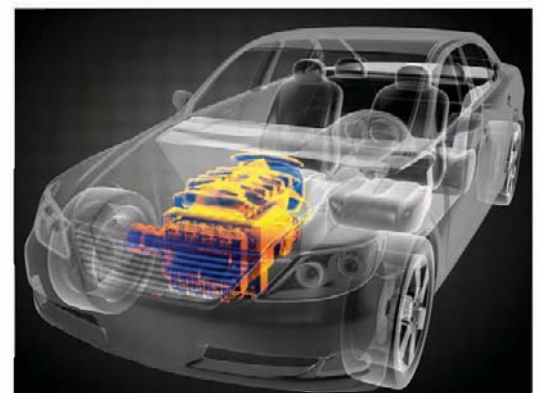
Small size, low mass

Case ground isolated

LEARN MORE

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Since its founding, Dytran has built a solid 35+ year industry reputation for trusted, field proven experience in the design and manufacture of sensors for dynamic testing.





PRODUCT SPECIFICATIONS

MODEL 3335C

PHYSICAL

Weight, Max. (Less Cable)	
Connector	Type
Mounting Provision	
Material	Housing
	Connector
Element Style	Material
	Type

ENGLISH		SI	
1.23	oz	35	grams
10-32		10-32	
10-32 Screw		10-32 Screw	
Alloy 600		Alloy 600	
Stainless Steel		Stainless Steel	
Single Crystal		Single Crystal	
Planar Shear		Planar Shear	

PERFORMANCE

Sensitivity [1]	
Frequency Response	±5%
	±10%
	±30%
Resonant Frequency	
Capacitance	
Linearity [2]	
Maximum Transverse sensitivity	
Strain Sensitivity	
Insulation resistance	
Output Polarity	

1 - 2	pC/g	0.1 - 0.2	pC/m/s ²
[4] to 2500	Hz	[4] to 2500	Hz
[4] to 3500	Hz	[4] to 3500	Hz
[4] to 5000	Hz	[4] to 5000	Hz
> 20	kHz	> 20	kHz
340	pF	340	pF
± 1%	% F.S.	± 1%	% F.S.
5	%	5	%
0.002	g/με	0.02	m/s ² /με
at 75°F >1.0E8	Ω	at 24°C >1.0E8	Ω
at 1200°F >5.0E4	Ω	at 649°C >5.0E4	Ω
Negative		Negative	

ENVIRONMENTAL

Maximum Vibration	
Maximum Shock	
Temperature Range	
Seal	
Ground Isolation	

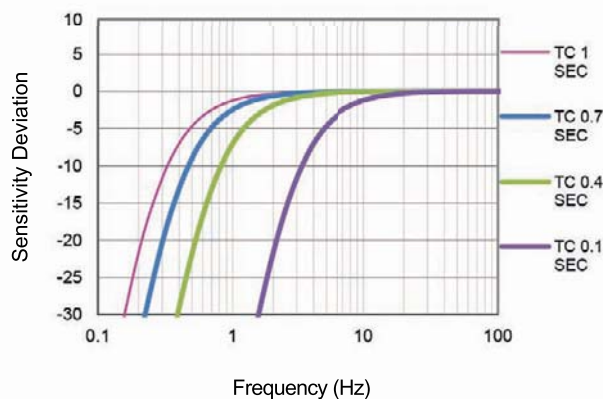
±6000	G, peak	±58,860	m/s ² , peak
±10,000	G, peak	±98,100	m/s ² , peak
-60 to +1200	°F	-51 to +649	°C
Hermetic		Hermetic	
>1.0E8	Ω	>1.0E8	Ω

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] Low frequency response and phase response is function of charge amplifier. See graph below for example.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [5] U.S. Patent number US8,375,793 B2 applies to this unit.

TYPICAL RESPONSE GRAPHS

Typical Low Frequency Response



Typical Temperature Response

