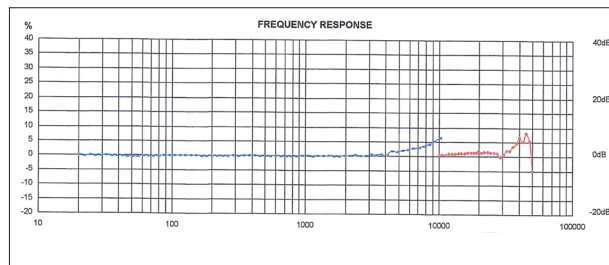
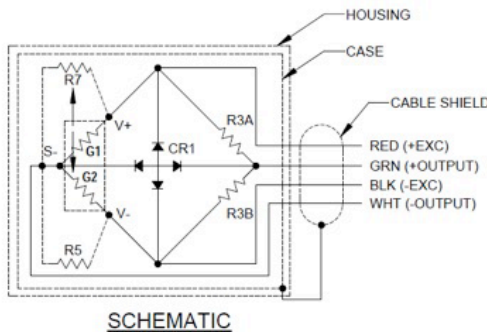
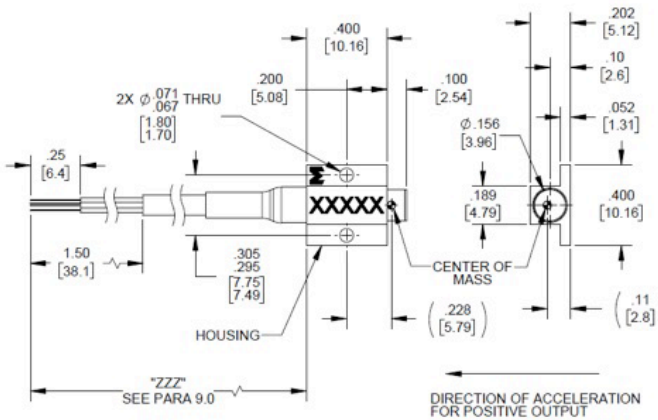


Damped piezoresistive accelerometer

Model 726C



Frequency response calibration of 726C

Model 726C is a very low mass accelerometer weighing only 1.4 grams. This accelerometer is designed for automotive safety testing applications that require, broad frequency response, and minimum zero shift following the event.

Model 726C utilizes a unique and advanced micro-machined piezoresistive sensor, which includes multi-mode damping for exceptional bandwidth with no significant resonance response in the usable range. This monolithic sensor incorporates the latest MEMS technology for ruggedness, stability and reliability over previous designs. The accelerometer has a two active arm, full bridge circuit with fixed completion resistors to facilitate shunt calibration. With a frequency response extending down to dc (steady state acceleration), this accelerometer is ideal for measuring long duration transient shocks.

726C has a full scale range of 2000 g and gas damping. It is available with less than 1% transverse sensitivity and less than ± 25 mV Zero Measurand Output as the "TZ" option. 726C comes standard with calibration data for 2V, 5V and 10V excitation.

US patent 6,988,412 applies.

Key features

- DC response and wide bandwidth
- Multi-mode damping
- Mechanical stops
- In-dummy application
- SAE J211/J2570 compliant

Damped piezoresistive accelerometer

Model 726C

Specifications

All specifications are referenced at +75°F (+24°C) and 10 Vdc, unless otherwise noted. Sensitivity and zero measurement offset are provided at 2V, 5V and 10V excitation. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

Dynamic characteristics	Units	-2K
Range	g	± 2000
Sensitivity (at 100Hz and 10g)		
Minimum/Nominal/Maximum	mV/V/g	.011/.02/.03
Frequency response [Referenced to 100 Hz]		
± 5% maximum	Hz	0 to 5000
Non-linearity	%	±1
Zero measurement output	mV	±50 maximum, ±25 optional
Transverse sensitivity	% max	3 (1 optional)
Thermal zero shift (nominal)		
0° to 50°C	%FSO/°C	0.02
32° to 122°F	%FSO/°F	0.01
Thermal sensitivity shift (max)		
10° to 30°C	%/°C	0.2
50° to 86°F	%/°F	0.1

Electrical characteristics		
Excitation	Vdc	2.0, 5.0, 10.0
Resistance		
Input, minimum	ohms	700
Output, maximum	ohms	3000
Fixed resistors	ohms	500 ± 1.0%
Insulation resistance	Mohms	100 min @ 50 Vdc

Physical characteristics		
Case material		Hard anodized aluminum alloy, color black
Electrical connections		Integral 4 conductor, # 32 AWG Teflon insulated leads, shielded with white polyurethane jacket.
Mounting torque		2.6 in-lbf (0.29 N.m) recommended/3.0 in-lbf (0.34 N.m) maximum
Weight		0.05 oz (1.4 gm); cable 0.1 oz/ft (9 gm/m), typical

Environmental		
Acceleration limits		
Shock (half-sine pulse duration)		10000 g, 80 µsec or longer
Temperature		
Operating	°C (°F)	- 40 to +100 (-40 to +212)
Storage		Room temperature
Humidity		IP65

Damped piezoresistive accelerometer

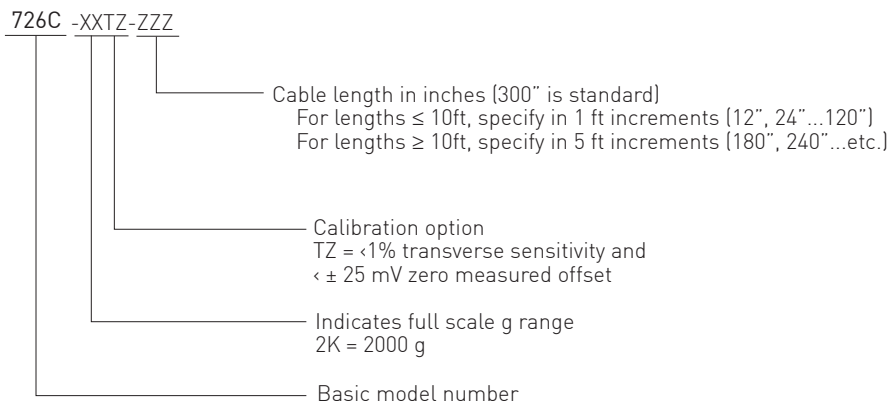
Model 726C

Accessories

Product	Description	726C
EHM35	Allen wrench	Included
EHW196	Size-0 flat washers (x2)	Included
EH828	0-8 x3/16 inch socket head cap screw (x2)	Included
7953A	Triaxial mounting block	Optional
126	3-channel bridge amplifier	Optional
136	3-channel DC differential voltage amplifier	Optional

Notes

- Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.
- Model number definition:



Contact

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