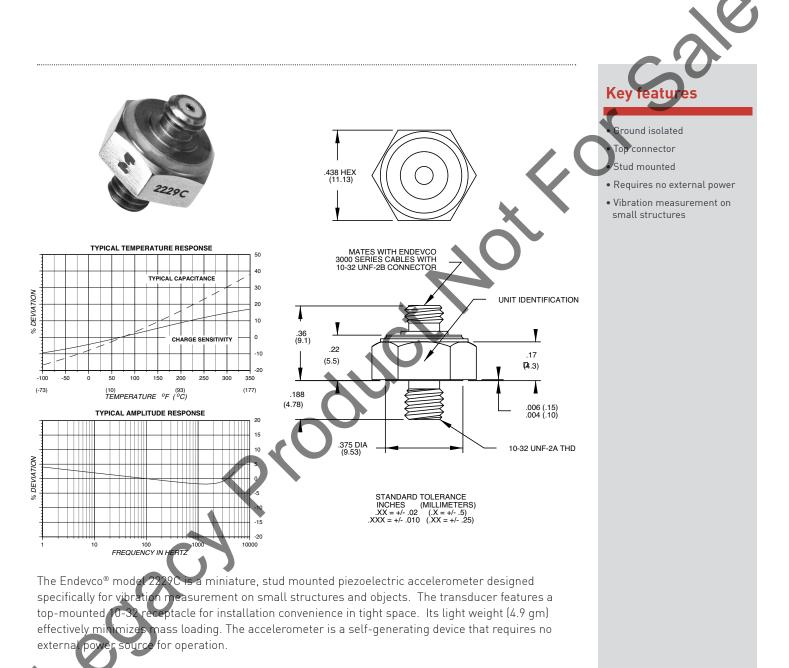


## Piezoelectric accelerometer

Model 2229C



The model 2229C features Endevco's Piezite<sup>®</sup> type P-8 crystal element, operating in annular shear mode. This device exhibits excellent output sensitivity stability over time. Signal ground is isolated from the mounting surface of the unit. A low-noise, flexible, coaxial cable is supplied for error-free operation.

Endevco signal conditioner models 2771C, 2775B or Oasis 2000 computer-controlled system are recommended for use with this high impedance accelerometer.

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Piezoelectric accelerometers | Piezoresistive accelerometers | IEPE accelerometers | Variable capacitance accelerometers | Piezoresistive pressure sensors | Piezoelectric pressure sensors | High intensity microphones | Inertial sensors | Signal conditioners and supportive instrumentation | Cable assemblies



# **Piezoelectric accelerometer**

Model 2229C

### **Specifications**

Specifications		
he following performance specifications cor nless otherwise noted. Calibration data, tra		ical values, referenced at +75°F (+24°C), 100 Hz, indards and Technology (NIST), is supplied
ynamic characteristics	Units	Value
harge sensitivity		
Typical Minimum	pC/g pC/g	2.8
requency response	perg	See typical amplitude response
esonance frequency	kHz	21 (typical)
mplitude response [1]	1112	
±5%	Hz	1 to 5000
±1 dB	Hz	.5 to 7000
emperature response		See typical curve
ransverse sensitivity	%	≤5
mplitude linearity	%	
Per 500 g, 0 to 2000 g		
lectrical characteristics		
utput polarity esistance	GΩ	Acceleration directed into base produces positive output
solation	MΩ	
apacitance	pF	400
rounding	F.	Signal return is isolated from case
nvironmental characteristics		
emperature range		-67°F to +350°F (-55°C to +177°C)
umidity inusoidal vibration limit	a sk	Epoxy sealed, non-hermetic 1000
hock limit [2]	g pk g pk	2000
ase strain sensitivity	equiv. g pk/p.strain	0.0005
hermal transient sensitivity	equiv. g/°F (/°C)	0.004 (0.007)
lectromagnetic sensitivity	equiv. g/ rms/gauss	0.001
hysical characteristics		
imensions /eight	oz (gm)	See outline drawing 0.17 (4.9)
ase material	02 (giii)	Stainless steel
onnector		Coaxial, 10-32 thread. Mates with Endevco 3060D cable
lounting torque	lbf-in (Nm)	18 [2]
alibration		
upplied:		
harge sensitivity	pC/g	
apacitance laximum transverse sensitivity	pF %	
requency response	%	20 Hz to 5000 Hz
requency response	dB	5 kHz to 30 kHz
	35	



### **Piezoelectric accelerometer** Model 2229C

#### Accessories:

Product	ct Description	
3060D-120	Cable assembly, 10 ft	Included
2771C	In-line charge connector	Optional
2775B	Signal conditioner	Optional
4990A-X	OASIS 2000 computer-controlled system	Optional



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#### Notes:

1. Low-end response of the transducer is a function of its associated electronics.

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- 2. Short duration shock pulses, such as those generated by metal-to-metal impacts, may excite transducer resonance and cause linearity errors. Request the TP290 for more details.
- 3. Flexible cable, such as the supplied 3060D, should be used to minimize cable-strain errors.
- 4. 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.



Continued product improvement necessitates that Endevco reserve the right to modify these specifications without notice. Endevco maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability. 100119