

PCB Piezotronics 352A10

## Ceramic Shear ICP Accelerometer



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Model Number  
**352A10**

# CERAMIC SHEAR ICP® ACCELEROMETER

Revision: E  
ECN #: 12845

## DYNAMIC PERFORMANCE

Voltage Sensitivity	mV/g [ $\mu\text{V}/(\text{m/s}^2)$ ]	10 [1,02]	( $\pm 10\%$ )
Measurement Range	$\pm g$ pk [ $\pm \text{m/s}^2$ pk]	500 [4 905]	
Frequency Range: ( $\pm 5\%$ )	Hz	3 to 10,000	
( $\pm 10\%$ )	Hz	1 to 20,000	
Mounted Resonant Frequency	kHz	>65	
Resolution - Broadband	g rms [ $\text{m/s}^2$ rms]	0.003 [0,03]	[1]
Amplitude Linearity	%	$\leq \pm 1$	[2]
Transverse Sensitivity	%	$\leq 5$	

## ENVIRONMENTAL

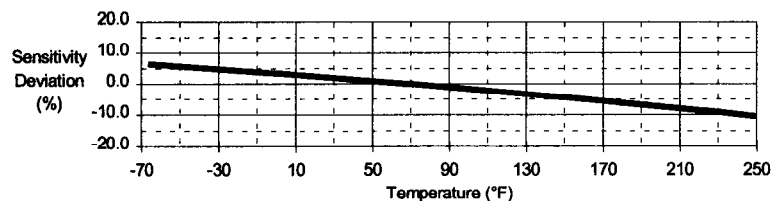
Shock Limit (maximum)	$\pm g$ pk [ $\pm \text{m/s}^2$ pk]	10,000 [98 100]	
Operating Temperature Range	$^{\circ}\text{F}$ [ $^{\circ}\text{C}$ ]	-65 to +250 [-54 to +121]	
Temperature Coefficient	%/ $^{\circ}\text{F}$ [%/ $^{\circ}\text{C}$ ]	See Graph	[1]

## ELECTRICAL

Excitation Voltage/Constant Current	VDC/mA	18-30/2-20	
Output Impedance	ohms	$\leq 200$	
Output Bias	VDC	7 to 11	
Discharge Time Constant	sec	0.3 to 1.0	
Spectral Noise: (1 Hz)	$\mu\text{g}/\sqrt{\text{Hz}}$ [ $(\mu\text{m/s}^2)/\sqrt{\text{Hz}}$ ]	1,000 [9 810]	[1]
(10 Hz)	$\mu\text{g}/\sqrt{\text{Hz}}$ [ $(\mu\text{m/s}^2)/\sqrt{\text{Hz}}$ ]	300 [2 943]	[1]
(100 Hz)	$\mu\text{g}/\sqrt{\text{Hz}}$ [ $(\mu\text{m/s}^2)/\sqrt{\text{Hz}}$ ]	80 [785]	[1]
(1 kHz)	$\mu\text{g}/\sqrt{\text{Hz}}$ [ $(\mu\text{m/s}^2)/\sqrt{\text{Hz}}$ ]	25 [308]	[1]

## MECHANICAL

Sensing Element	material/geometry	Ceramic/Shear	
Housing	material/sealing	Titanium/Hermetic	
Size (diameter x height)	in [mm]	0.22 x 0.35 [5,6 x 8,9]	
Weight	oz [gm]	0.03 [0,7]	[1]
Electrical Connector	type/location	Solder Pins/Top	[3]



All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

ICP® is a registered trademark of PCB Piezotronics, Inc.

DD032 Rev.G 2/16/99

## OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted by the letter prefixes below. More than one option may be used.

- ☐ **W** - Water Resistant Cable  
Attached Cable 030AD010EJ is replaced by 018AD010EJ (terminates in 10-32 plug)

## NOTES:

- [1] Typical.  
[2] Zero-based, least-squares, straight line method.  
[3] Supplied with attached 030AD010EJ Cable (termination in 10-32 plug).

## SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax Sample (1)  
Model 080A90 Quick Bonding Gel (1)  
NIST Traceable Calibration Certificate

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Date: <i>1/10/01</i>	Date: <i>1/10/01</i>	Date: <i>1/16/01</i>	Date: <i>1/10/01</i>
			Spec Number: <b>1559</b>

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