

## CHARGE OUTPUT ACCELEROMETER

## Performance

	ENGLISH	SI	
Sensitivity ( $\pm 20\%$ )	1.7 pC/g	0.17 pC/(m/s <sup>2</sup> )	
Measurement Range	$\pm 2000$ g pk	$\pm 19,620$ m/s <sup>2</sup> pk	
Frequency Range (+5 %)	10 kHz	10 kHz	[2]
Frequency Range (+10 %)	13 kHz	13 kHz	[2]
Resonant Frequency	$\geq 50$ kHz	$\geq 50$ kHz	
Non-Linearity	$\leq 1\%$	$\leq 1\%$	[3]
Transverse Sensitivity	$\leq 5\%$	$\leq 5\%$	[4]

## Environmental

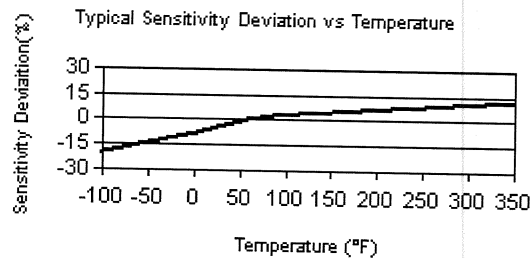
Overload Limit (Shock)	$\pm 10,000$ g pk	$\pm 98,100$ m/s <sup>2</sup> pk	
Temperature Range	-100 to +350 °F	-73 to +177 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	$\leq 0.10$ g/ $\mu\epsilon$	$\leq 1.0$ (m/s <sup>2</sup> )/ $\mu\epsilon$	[1]

## Electrical

Capacitance	310 pF	310 pF	
Insulation Resistance (at 70° F [21°C])	$>10^{10}$ ohm	$>10^{10}$ ohm	[1]
Output Polarity	Negative	Negative	

## Physical

Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Epoxy	Epoxy	
Size (Height x Length x Width)	0.14 in x 0.45 in x 0.25 in	3.6 mm x 11.4 mm x 6.4 mm	
Weight	0.02 oz	0.6 gm	[1]
Electrical Connector	3-56 Coaxial Jack	3-56 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	



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.

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## OPTIONAL VERSIONS

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

P - Positive Output Polarity	Positive	Positive
Output Polarity		

## NOTES:

- [1] Typical.  
[2] Low frequency response is determined by external signal conditioning electronics.  
[3] Zero-based, least-squares, straight line method.  
[4] Transverse sensitivity is typically  $\leq 3\%$ .

## SUPPLIED ACCESSORIES:

- Model 030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug. (1)  
Model 039A27 One-piece removal tool for Models 352C22, 357C10, 352A21, & 357A09 (1)  
Model 080A109 Petro Wax (1)  
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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