

Model Number 357B14		CHARGE OUTPUT ACCELEROMETER		Revision: N ECN #: 46956	
Performance		ENGLISH		SI	
Sensitivity(± 10 %)		3 pC/g		0.31 pC/(m/s²)	
Measurement Range		± 2300 g pk		± 22,600 m/s² pk	
Frequency Range(+5 %)		12 kHz		12 kHz [2]	
Frequency Range(+10 %)		16 kHz		16 kHz [2]	
Frequency Range(+3 dB)		26 kHz		26 kHz [2]	
Resonant Frequency		≥ 50 kHz		≥ 50 kHz	
Non-Linearity(1600 g, 15700 m/s²)		≤ 1 %		≤ 1 % [3]	
Non-Linearity		≤ 2 %		≤ 2 % [3]	
Transverse Sensitivity		≤ 5 %		≤ 5 %	
Environmental					
Overload Limit(Shock)		± 10,000 g pk		± 98,100 m/s² pk	
Temperature Range		-95 to +500 °F		-71 to +260 °C	
Temperature Response		See Graph		See Graph [1]	
Base Strain Sensitivity		0.002 g/μϵ		0.02 (m/s²)/μϵ [1]	
Electrical					
Capacitance		485 pF		485 pF [1]	
Insulation Resistance(at 500°F)		>10 ⁸ Ohm		>10 ⁸ Ohm [1]	
Insulation Resistance(at 70° F [21°C])		>10 ¹² Ohm		>10 ¹² Ohm	
Output Polarity		Negative		Negative	
Physical					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Titanium		Titanium	
Sealing		Welded Hermetic		Welded Hermetic	
Size (Hex x Height)		0.28 in x 0.64 in		7.1 mm x 16.3 mm	
Weight		0.071 oz		2.0 gm [1]	
Electrical Connector		10-32 Coaxial Jack		10-32 Coaxial Jack	
Electrical Connection Position		Top		Top	
Mounting Thread		5-40 Male		5-40 Male	
Typical Sensitivity Deviation vs Temperature					
Sensitivity Deviation(%)		30 20 10 0 -10		-100 0 100 200 300 400 500	
Temperature (°F)					
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 Group, Inc.					
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.					
A - Adhesive Mount					
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)					
J - Ground Isolated					
Frequency Range(+5 %)		10 kHz		10 kHz	
Frequency Range(+10 %)		13.5 kHz		13.5 kHz	
Resonant Frequency		>49 kHz		>49 kHz	
Electrical Isolation(Base)		>10 ⁸ Ohm		>10 ⁸ Ohm	
Size - Hex x Height		0.375 in x 0.72 in		9.52 mm x 18.3 mm	
Weight		0.11 oz		3.2 gm	
M - Metric Mount					
Mounting Thread		M3 x 0.50 Male		M3 x 0.50 Male	
P - Positive Output Polarity					
Output Polarity		Positive		Positive	
W - Water Resistant Cable					
Electrical Connector		Sealed Integral Cable		Sealed Integral Cable	
Electrical Connection Position		Top		Top	
NOTES:					
[1] Typical.					
[2] Low frequency response is determined by external signal conditioning electronics.					
[3] Zero-based, least-squares, straight line method.					
[4] See PCB Declaration of Conformance PS081 for details.					
SUPPLIED ACCESSORIES:					
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)					
Entered: LK		Engineer: BAM		Sales: WDC	
Approved: BAM		Spec Number:			
Date: 8/8/2017		Date: 8/8/2017		Date: 8/8/2017	
Date: 8/8/2017		Date: 8/8/2017		1326	
PCB PIEZOTRONICS™					
3425 Walden Avenue, Depew, NY 14043					
Phone: 716-684-0001					
Fax: 716-684-0987					
E-Mail: info@pcb.com					

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 Group, Inc.