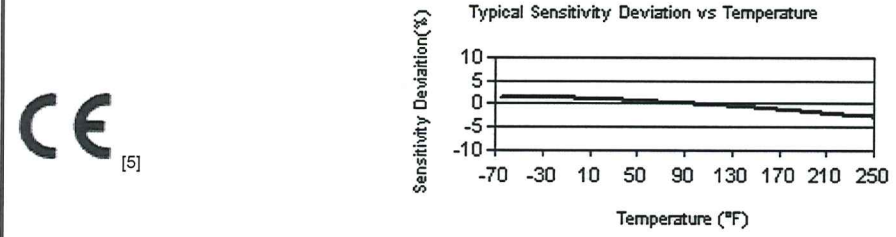


Model Number	ICP® ACCELEROMETER		Revision: F
353B02			ECN #: 35369
Performance	ENGLISH	SI	OPTIONAL VERSIONS
Sensitivity(± 5 %)	20 mV/g	2.04 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 250 g pk	± 2453 m/s ² pk	
Frequency Range(± 5 %)	1 to 7000 Hz	1 to 7000 Hz	
Frequency Range(± 10 %)	0.7 to 10,000 Hz	0.7 to 10,000 Hz	B - Low bias electronics
Frequency Range(± 3 dB)	0.35 to 18,000 Hz	0.35 to 18,000 Hz	Output Bias Voltage
Resonant Frequency	≥ 38 kHz	≥ 38 kHz	4.5 to 7.5 VDC
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s ² rms	4.5 to 7.5 VDC
Non-Linearity	≤ 1 %	≤ 1 %	Excitation Voltage
Transverse Sensitivity	≤ 5 %	≤ 5 %	12 to 30 VDC
Environmental			Constant Current Excitation
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	1 to 20 mA
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	Measurement Range
Temperature Response	See Graph	See Graph	± 150 g pk
Base Strain Sensitivity	≤ 0.0005 g/με	≤ 0.005 (m/s ²)/με	Broadband Resolution(1 to 10,000 Hz)
Electrical			0.01 g rms
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	Spectral Noise(1 Hz)
Constant Current Excitation	2 to 20 mA	2 to 20 mA	2300 μg/√Hz
Output Impedance	≤ 100 ohm	≤ 100 ohm	Spectral Noise(10 Hz)
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	560 μg/√Hz
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec	Spectral Noise(100 Hz)
Settling Time(within 10% of bias)	<5 sec	<5 sec	230 μg/√Hz
Spectral Noise(1 Hz)	1600 μg/√Hz	15,700 (μm/sec ²)/√Hz	Spectral Noise(1 kHz)
Spectral Noise(10 Hz)	350 μg/√Hz	3433 (μm/sec ²)/√Hz	65 μg/√Hz
Spectral Noise(100 Hz)	90 μg/√Hz	883 (μm/sec ²)/√Hz	
Spectral Noise(1 kHz)	32 μg/√Hz	314 (μm/sec ²)/√Hz	
Physical			J - Ground Isolated
Sensing Element	Quartz	Quartz	Frequency Range(± 5 %)
Sensing Geometry	Shear	Shear	1 to 5000 Hz
Housing Material	Titanium	Titanium	Frequency Range(± 10 %)
Sealing	Welded Hermetic	Welded Hermetic	0.7 to 10,000 Hz
Size (Hex x Height)	0.50 in x 1.19 in	12.7 mm x 30.2 mm	Resonant Frequency
Weight	0.35 oz	10 gm	≥ 22 kHz
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	Electrical Isolation(Base)
Electrical Connection Position	Top	Top	≥ 10 ⁸ ohm
Mounting Thread	10-32 Female	10-32 Female	Size - Hex x Height
			0.50 in x 1.24 in
			12.7 mm x 31.5 mm
			Q - Extended discharge time constant
			Frequency Range(± 5 %)
			0.1 to 7000 Hz
			Frequency Range(± 10 %)
			0.07 to 10,000 Hz
			Discharge Time Constant
			>10 sec
			Settling Time(within 10% of bias)
			45 sec
			Supplied Accessory : Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
			W - Water Resistant Cable
			Electrical Connector
			Sealed Integral Cable
			Sealed Integral Cable
			Electrical Connection Position
			Top
			Top
			NOTES:
			[1] Typical.
			[2] B and Q options supplied with a sensitivity tolerance of ± 10 %.
			[3] Zero-based, least-squares, straight line method.
			[4] Transverse sensitivity is typically ≤ 3%.
			[5] See PCB Declaration of Conformance PS023 for details.
			SUPPLIED ACCESSORIES:
			Model 080A Adhesive Mounting Base (1)
			Model 080A109 Petro Wax (1)
			Model 081B05 Mounting Stud (10-32 to 10-32) (1)
			Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
			Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)
			Entered: <i>DMW</i> Engineer: <i>BAM</i> Sales: <i>WDC</i> Approved: <i>EB</i> Spec Number:
			Date: <i>3/24/11</i> Date: <i>3/24/11</i> Date: <i>3/24/11</i> Date: <i>3/24/11</i> 353-2020-80
			PCB PIEZOTRONICS™ Phone: 716-684-0001
			VIBRATION DIVISION Fax: 716-685-3886
			3425 Walden Avenue, Depew, NY 14043 E-Mail: vibration@pcb.com



All specifications are at room temperature unless otherwise specified.
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