Model Number 353B03		ICP® ACCEL	ER(OMETER
	ENGLISH:			
Performance	ENGLISH	<u>SI</u>	101	
Sensitivity(± 5 %)	10 mV/g	1.02 mV/(m/s²)	[2]	Optional versions
Measurement Range	± 500 g pk	± 4905 m/s² pk		•
Frequency Range(± 5 %)	1 to 7000 Hz	1 to 7000 Hz		
Frequency Range(± 10 %)	0.7 to 11,000 Hz	0.7 to 11,000 Hz		B - Low bias ele
Frequency Range(± 3 dB)	0.35 to 20,000 Hz	0.35 to 20,000 Hz		Output Bias Volta
Resonant Frequency	≥ 38 kHz	≥ 38 kHz		Excitation Voltag
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s² rms	[1]	Constant Current
Non-Linearity	≤ 1 %	≤ 1 %	[3]	Measurement Ra
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]	1
Environmental				J - Ground Isolat
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s² pk		Frequency Range
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C		Frequency Rang
Temperature Response	See Graph	See Graph	[1]	Resonant Freque
Base Strain Sensitivity	≤ 0.0005 g/με	≤ 0.005 (m/s²)/με	[1]	Electrical Isolatio
Electrical				Size - Hex x Heig
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		
Constant Current Excitation	2 to 20 mA	2 to 20 mA		Q - Extended dis
Output Impedance	≤ 100 ohm	≤ 100 ohm		Frequency Range
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		Frequency Range
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec		Discharge Time (
Settling Time(within 10% of bias)	<5 sec	<5 sec		Settling Time(with
Spectral Noise(1 Hz)	2800 μg/√Hz	27,468 (µm/sec ²)/√Hz	[1]	Supplied Access
Spectral Noise(10 Hz)	700 µg/√Hz	6867 (µm/sec ²)/√Hz	[1]	cal from 0.5 to 10
Spectral Noise(100 Hz)	180 µg/√Hz	1766 (µm/sec ²)/√Hz	[1]	
Spectral Noise(1 kHz)	64 µg/√Hz	628 (µm/sec ²)/√Hz	[1]	W - Water Resis
Physical	2 . h3	020 (µ11//Sec)/ 11/2	1.1	Electrical Connec
Sensing Element	Quartz	Quartz		Electrical Connec
Sensing Geometry	Shear	Shear		
Housing Material	Titanium	Snear Titanium		
Sealing	Welded Hermetic	Welded Hermetic		NOTES:
Size (Hex x Height)	0.50 in x 0.81 in			[1] Typical.
Weight	0.38 oz	12.7 mm x 20.6 mm	[1]	[2] B and Q option
Electrical Connector	10-32 Coaxial Jack	10.5 gm	[1]	[3] Zero-based, le
Electrical Connection Position	Side	10-32 Coaxial Jack		[4] Transverse se
Mounting Thread	10-32 Female	Side		[5] See PCB Decl
Mounting Timeau	10-32 Female	10-32 Female		
	Typical Sensitivity	Deviation vs Temperature		SUPPLIED AC
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Deviation os remperature		Model 080A Adhe
	Ē 10 			Model 080A109 P
	sair 5			Model 081B05 Mo
			\neg	Model ACS-1 NIS
$C \in$	Q 1/1			Model M081B05
	£ -5		-	
[a]	[-10 	1 1 1 1 1		
r _e 1	ຣີ -70 -30 10	50 90 130 170 210	250	Entered: (OM)()

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.

Temperature (°F)

OPTIONAL VERSIONS

Revision: G

ECN #: 35369

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

3	_	Low	bias	electronics	

Output Bias Voltage	4.5 to 7.5 VDC	4.5 to 7.5 VDC
Excitation Voltage	12 to 30 VDC	12 to 30 VDC
Constant Current Excitation	1 to 20 mA	1 to 20 mA
Measurement Range	+ 300 a pk	+ 2943 m/s² nk

J - Ground Isolated

- Craira icolatou		
Frequency Range(± 5 %)	1 to 5000 Hz	1 to 5000 Hz
Frequency Range(± 10 %)	0.7 to 9000 Hz	0.7 to 9000 Hz
Resonant Frequency	≥ 22 kHz	≥ 22 kHz
Electrical Isolation(Base)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm
Size - Hex x Height	0.50 in x 0.86 in	12.7 mm x 21.8 mm

Q - Extended discharge time constant

Frequency Range(± 5 %)	0.1 to 7000 Hz	0.1 to 7000 Hz		
Frequency Range(± 10 %)	0.07 to 11,000 Hz	0.07 to 11,000 Hz		
Discharge Time Constant	>10 sec	>10 sec		
Settling Time(within 10% of bias)	45 sec	45 sec		
Supplied Accessory : Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)				

N - Water Resistant Cable

Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

IOTES:

-] Typical.
- | B and Q options supplied with a sensitivity tolerance of ± 10 %.
 | Zero-based, least-squares, straight line method.

- Transverse sensitivity is typically ≤ 3%.

 See PCB Declaration of Conformance PS023 for details.

UPPLIED ACCESSORIES:

lodel 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)

lodel M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: () () ()	Engineer:BAM	Sales: WDC	Approved: 2B	Spec Number:
Date: 3 24 11	Date: 3 24 11	Date: 3 24 11	Date: 3 24 11	353-2030-80



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