301A03

## QUARTZ ICP ® REFERENCE STANDARD ACCELEROMETER

Revision: G

ECN #: 18515

DYNAMIC PERFORMANCE		i	
Voltage Sensitivity	mV/g [mV/(ms <sup>-2</sup> )]	10 [1,02]	(±10%)
Measurement Range (for ±5V output)	±g pk [±ms <sup>-2</sup> pk]	500 [4 905]	
Frequency Range: (±2%)	Hz	10 to 5,000	
(±5%)	Hz	1 to 5,000	
Mounted Resonant Frequency	kHz	60	[1]
Broadband Resolution (1 Hz to 10 kHz)	g rms [ms <sup>-2</sup> rms]	0.01 [0,98]	[1]
Amplitude Linearity	-%	≤± 0.5	[2]
Transverse Sensitivity	% .	≤ 3	
ENVIRONMENTAL		•	
Operating Temperature Range	°F [°C]	-65 to 150 [-54 to +66]	
Temperature Coefficient of Sensitivity	%/°F [%/°C]	≤0.03 [≤0,054]	
EL ECTRICAL	• •		

ELECTRICAL **Excitation Voltage/Constant Current** 

Output Impedance **Output Bias** Discharge Time Constant

MECHANICAL Sensing Element Housing Size Weight

**Electrical Connector** Mounting Thread: Standard

**Unit Under Test Mounting Torque** 

sec material/geometry material/sealing in [mm] oz [gm]

VDC/mA

ohms

**VDC** 

type/location size size in-lb [N-cm]

Quartz/Compression Stainless Steel/Welded 1 x 1.5 [25,4 x 38,1] 4.6 [130] 10-32 Coaxial Jack/Side 10-32 UNF 10-32 UNF 10-20 [113-225]

<100

8 to 12

0.5 to 2.0

18 to 28/2 to 20

## **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.

M - Metric Mount

Calibration Based on 1,02 mV/(ms<sup>-2</sup>) Reference Sensitivity Measured at 159 Hz

Mounting Thread: Standard

10-32 size

Unit Under Test size  $M5 \times 0.8$ 

**Modify Accessories** 

(2) Model M081B23 Stud replaces (2) Model 081A08

## NOTES:

Drawn:

Date: 10-09.

[1]

- [1] Typical.
- [2] Zero-based, least-squares, straight line method.

## SUPPLIED ACCESSORIES:

Model 081B05 Mounting Stud (2) Model 081A08 Mounting Stud (2) NIST Traceable Calibration Certificate 5 Hz to 5 kHz

PCB PIEZOTRONICS SEVE

Phone (888) 684-0013

Fax (716) 685-3886

E-Mail: svssales@pcb.com

3425 Walden Avenue, Depew, New York 14043 Eng: Mo

Date: 10/9/03

Sales: wox

Date:

Spec Number: Appd: Date: 10/10/ 301-1030-80

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

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.

DD032 Rev.G 2/16/99