Model	Number		
350B44			

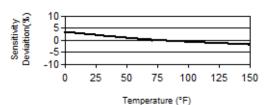
TRIAXIAL ICP® ACCELEROMETER

Revision: B ECN #: 51341

350B44		11(1) (2(1) (2 1)	•
Performance Sensitivity(± 30 %) Measurement Range Frequency Range(± 1 dB) Frequency Range(- 3 dB) Resonant Frequency Electrical Filter Corner Frequency(- 3 dB) Mechanical Filter Resonant Frequency	ENGLISH 1.0 mV/g ± 5,000 g pk 0.4 to 10,000 Hz 0.2 to 25,000 Hz > 50 kHz 17 kHz 35 kHz	\$1 .1 mV/(m/s²) ± 49,000 m/s² pk 0.4 to 10,000 Hz 0.2 to 25,000 Hz > 50 kHz 17 kHz 35 kHz	[1] [2][3] [2][4]
Broadband Resolution(1 to 10,000 Hz) Non-Linearity(per 1000 g (9810 m/s²)) Transverse Sensitivity Environmental Overload Limit(Shock)	0.04 g rms ≤ 2.0 % ≤ 7 % ± 50,000 g pk	0.39 m/s ² rms ≤ 2.0 % ≤ 7 % ± 490,000 m/s ² pk	[2]
Temperature Range(Operating) Temperature Range(Storage) Temperature Response Base Strain Sensitivity Electrical	± 30,000 g pk -10 to +150 °F -40 to +200 °F See Graph 0.002 g/με	-23 to +66 °C -40 to +93 °C See Graph 0.02 (m/s²)/με	[2][5] [2]
Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Discharge Time Constant Settling Time(within 10% of bias) Electrical Isolation(Case)	20 to 30 VDC 2 to 20 mA ≤ 200 Ohm 8 to 14 VDC 1.0 to 2.0 sec < 10 sec > 10 ⁸ Ohm	20 to 30 VDC 2 to 20 mA ≤ 200 Ohm 8 to 14 VDC 1.0 to 2.0 sec < 10 sec > 10 ⁸ Ohm	[2]
Physical Sensing Element Sensing Geometry Housing Material Sealing Size (Height x Length x Width)	Ceramic Shear Titanium Hermetic 1.02 in x 1.02 in x 1.02 in	Ceramic Shear Titanium Hermetic 26.0 mm x 26.0 mm x 26.0 mm	
Weight(without cable) Electrical Connector Electrical Connection Position Cable Termination Cable Length Cable Type Mounting	0.95 oz Integral Cable Side 1/4-28 4-Pin Jack 5.0 ft 034 4-cond Shielded Through Hole	27 g Integral Cable Side 1/4-28 4-Pin Jack 1.52 m 034 4-cond Shielded Through Hole	[2]

Typical Sensitivity Deviation vs Temperature





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^{\otimes} is a registered trademark of PCB Piezotronics, 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.

NOTES:

 $\label{thm:constraint} \mbox{[1]Typical corner frequency for coupled electrical and mechanical filters.}$

[2]Typical.

[3]Electrical filter is a second order filter.

[4]Amplitude at resonance is +9 dB.

[5]Test performed on a shaker at 100Hz

[6] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)

Model 100-16040-40 Metric mounting screws (M6x1.0 x 22mm long (1)

Model 100-6774-10 STD mounting screw (1/4-28 x .87 long) (1)

Model 100-8994-40 Coupling grease (1)

Model ACS-14T High G shock triaxial accelerometer calibration using Hopkinson bar (1)

Model ACS-22T NIST Traceable triaxial frequency response (100Hz to ±1 Db point (1)

Entered: LK	Engineer: AJA	Sales: RWM	Approved: BAM	Spec Number:
Date: 12/17/2020	Date: 12/17/2020	Date: 12/17/2020	Date: 12/17/2020	67765



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