Model Number K394B30C

CALIBRATION SHAKER SYSTEM - AIR BEARING SHAKER

Revision: A ECN#:

PERFORMANCE Stroke Frequency Range, frequency response testing Frequency Range, resonant search testing Acceleration Level (sinusoidal) Continuous (25 to 10000 Hz) Intermittent (35 to 10000 Hz) Maximum Payload Lifting Spring Air Supply Specifications Pressure Recommended flow supply to regulator Air-bearing flow rate (typical) ISO 8573.1 Quality Armature Insert Total mass Sensor mounting thread size Transverse Motion <921 Hz	English 0.4 in pk-pk 2 to 15000 Hz Up to 50 kHz 8.5 g pk 40 g pk 17.6 oz Lorentz – force coil 30 to 60 psi 1.5 ft³/min 0.15-0.20 ft³/min Class 3 Aluminum Ceramic 4.3 oz 1⁄4-28 UNF 5%	SI 10 mm pk-pk 2 to 15000 Hz Up to 50 kHz 83 m/s² pk 392 m/s² pk 500 gm Lorentz – force coil 2 to 4 bar 0.7 L/s 0.07-0.09 L/s Class 3 Aluminum Ceramic 121 gm 1/4-28 UNF 5%	[1] [2] [3] [4]	System Components 396C10: Air bearing shaker 080A200C: Ceramic insert (1/4-28 mount) with internal reference accelerometer [2] 482A21: ICP® sensor signal conditioner 2100E23-C: SmartAmp™ AC power amplifier with integrated DC supply and air regulator 003C10: Reference accelerometer sensor cable 012A03: Signal conditioner output cable 012A01 (Qty 2): Shaker cable Included Accessories Output air filter assembly, includes filter, and appropriate couplings Input air quality (and associated filters and dessicants) must be provided by end user per ISO 8573.1 Class 3 Sensor mounting adapter kit, includes typical mounting adapter studs and plates Primary calibration of internal reference accelerometer via laser interferometer for ultra low certainty of 0.2% at 100 Hz and 159 Hz Rack mount brackets for 2100E21 SmartAmp Power Cables
<10000 Hz	10%	10% 30%	[4]	Spare Fuses
<15000 Hz Shaker Dimensions Shaker Weight ELECTRICAL Drive-Coil Resistance Lorentz-Coil Resistance INTERNAL REFERENCE ACCELEROMETER Type Sensitivity Frequency Range (+/- 3dB) Resonant Frequency POWER AMPLIFIER Output Voltage, max Current Limit Output Power DC Current Supply All specifications are at room ICP® is a registered trademark of PCB Piezotronics, Inc.	30% 6.5 x 5.25 inch 22.5 lbs 1.0 Ohm (nominal) 2.8 Ohm (nominal) Quartz Shear ICP® 10 mV/g 0.35 to 30000 Hz >70 kHz 38 V rms 18 A peak 400 W 1.75 Amp	165 x 133 mm 10.2 kg 1.0 Ohm (nominal) 2.8 Ohm (nominal) Quartz Shear ICP® 1.02 mV/m/s² 0.35 to 30000 Hz >70 kHz 38 V rms 18 A peak 400 W 1.75 Amp	[5] [6] [7]	NOTES [1] DC coil payload limit. See manual for dynamic frequency response limits. [2] 080A200C is standard armature insert supplied. Other unit available is 080A199C (10-32 thread). [3] Typical, tested to ISO 16063-21:2003 recommendations. [4] These are typical values. TMS performs 100% acceptance testing to the suggested specifications of ISO 16063-21-2003. [5] at 4 Ω load impedance, 1 kHz, THD 0.1%. [6] Typical, over-current protection limited. [7] At 4 Ω load impedance, 1 kHz, THD 0.6%. Project Engineer: Product Manager: Mkt Team Leader: Spec Number:
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In the interest of constant product improvement, specifications may change without notice.				Date: 1/14/25 Date: 1/14/25 Date: 1/14/25



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