Model Number K394B30

CALIBRATION SHAKER SYSTEM - AIR BEARING SHAKER

Revision: E 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	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	<u>SI</u> 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	[1]	System Components 396C10: Air bearing shaker 080A200: Beryllium 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
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 <10000 Hz <15000 Hz Shaker Dimensions Shaker Weight	30 to 60 psi 1.5 ft³/min 0.15-0.20 ft³/min Class 3 Aluminum Beryllium 2.2 oz 1⁄4-28 UNF 5% 10% 30% 6.5 x 5.25 inch 22.3 lbs	2 to 4 bar 0.7 L/s 0.07-0.09 L/s Class 3 Aluminum Beryllium 62 gm 1/4-28 UNF 5% 10% 30% 165 x 133 mm 10.1 kg	[2] [3] [4] [4]	Included Accessories Air filter assembly, includes filter and appropriate couplings Sensor mounting adapter kit, includes typical mounting adaptor studs and plates Primary calibration of internal reference accelerometer via laser interferometer for ultra low uncertainty of 0.2% at 100 Hz and 159 Hz Rack mount brackets for 2100E21 SmartAmp Power cables Spare fuses
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	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	1.0 Ohm (nominal) 2.8 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] 080A200 is standard armature insert supplied. Other units available include 080A199 (10-32 thread), 080A205 (M6 x 0.75 – 6H thread), and 080A206 (M8 x 1.0 – 6H 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%.
All specifications are at room temperature unless otherwise specified. ICP® is a registered trademark of PCB Piezotronics, Inc.				Project Engineer: Product Manager: Mkt Team Leader: Spec Number: NEW CGL DEG PS-0095
In the interest of constant product improvement, specifications may change without notice.				Date: 1/14/25 Date: 1/14/25



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