Model Number K394B30C

## CALIBRATION SHAKER SYSTEM - AIR BEARING SHAKER

Revision: A ECN #:

PERFORMANCE Stroke	<u>English</u> 0.4 in pk-pk	<u><b>SI</b></u> 10 mm pk-pk		System Components 396C10: Air bearing shaker
Frequency Range, frequency response testing	2 to 15000 Hz	2 to 15000 Hz		080A200C: Ceramic insert (1/4-28 mount) with internal reference
Frequency Range, resonant search testing	Up to 50 kHz	Up to 50 kHz		accelerometer [2]
Acceleration Level (sinusoidal)				482A21: ICP® sensor signal conditioner
Continuous (25 to 10000 Hz)	8.5 g pk	83 m/s <sup>2</sup> pk		2100E23-C: SmartAmp <sup>™</sup> AC power amplifier with integrated DC supply
Intermittent (35 to 10000 Hz)	40 g pk	392 m/s <sup>2</sup> pk		and air regulator
Maximum Payload	17.6 oz	500 gm	[1]	003C10: Reference accelerometer sensor cable
Lifting Spring	Lorentz – force coil	Lorentz – force coil		012A03: Signal conditioner output cable
Air Supply Specifications				012A01 (Qty 2): Shaker cable
Pressure	30 to 60 psi	2 to 4 bar		
Recommended flow supply to regulator	1.5 ft <sup>3</sup> /min	0.7 L/s		Included Accessories
Air-bearing flow rate (typical)	0.15-0.20 ft <sup>3</sup> /min	0.07-0.09 L/s		Output air filter assembly, includes filter, and appropriate couplings
ISO 8573.1 Quality	Class 3	Class 3		Input air quality (and associated filters and dessicants) must be provided by end user per ISO 8573.1 Class 3
Armature	Aluminum	Aluminum		Sensor mounting adapter kit, includes typical mounting adapter studs and
Insert	Ceramic	Ceramic		plates
Total mass	4.3 oz	121 gm		Primary calibration of internal reference accelerometer via laser
Sensor mounting thread size	1/4-28 UNF	1/4-28 UNF	[2]	interferometer for ultra low uncertainty of 0.2% at 100 Hz and 159 Hz
Transverse Motion			[3]	Rack mount brackets for 2100E23-C SmartAmp
<921 Hz	5%	5%	[4]	Power Cables
<10000 Hz	10%	10%	[4]	Spare Fuses
<15000 Hz	30%	30%	[4]	
Shaker Dimensions	6.5 x 5.25 inch	165 x 133 mm		NOTES
Shaker Weight	22.5 lbs	10.2 kg		[1] DC coil payload limit. See manual for
ELECTRICAL				dynamic frequency response limits.
Drive-Coil Resistance	1.0 Ohm (nominal)	1.0 Ohm (nominal)		[2] 080A200C is standard armature insert
Lorentz-Coil Resistance	2.8 Ohm (nominal)	2.8 Ohm (nominal)		supplied. Other unit available is
INTERNAL REFERENCE ACCELEROMETER				00004000 (40.00 ///-)
Type	Quartz Shear ICP®	Quartz Shear ICP®		080A199C (10-32 thread).
Sensitivity	10 mV/g	1.02 mV/m/s <sup>2</sup>		[3] Typical, tested to ISO 16063-21:2003
Frequency Range (+/- 3dB)	0.35 to 30000 Hz	0.35 to 30000 Hz		recommendations. [4] These are typical values. TMS performs
Resonant Frequency	>70 kHz	>70 kHz		100% acceptance testing to the suggested
Resoliant Frequency	>10 KHZ	>10 KHZ		
POWER AMPLIFIER				specifications of ISO 16063-21-2003.
Output Voltage, max	38 V rms	38 V rms	[5]	[5] at 4 Ω load impedance, 1 kHz, THD 0.1%.
Current Limit	18 A peak	18 A peak	[6]	[6] Typical, over-current protection limited.
Output Power	400 W	400 W	[7]	[7] At 4 Ω load impedance, 1 kHz, THD 0.6%.
DC Current Supply	1.75 Amp	1.75 Amp		
All specifications are at room	temperature unless otherwis	se specified.		
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			<b>F</b>	545 CGK DEG PS-0166



In the interest of constant product improvement, specifications may change without notice.

Date: ZCLUONZEZ

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