







M O D E L 2004E/2007E

MINIATURE ELECTRODYNAMIC SHAKERS

- Up to 7 pounds (31 N) pk sine force
- Up to 0.5 inch (1.27 cm) stroke
- Payloads up to 2 lb (0.91 kg)
- 10-32 threaded mounting insert
- Wide frequency band operation up to 11 kHz
- Trunnion mounting base with EasyTurnTM handles

TYPICAL APPLICATIONS

- General vibration testing
 - Small components
 - Sub-assemblies
 - Biomedical
- Experimental modal analysis
- Educational laboratory research

PORTABLE EXCITATION

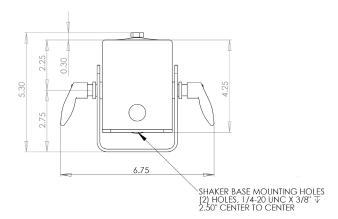
These electrodynamic exciters are small, portable permanent magnet shakers. They are ideally suited for general purpose vibration testing of small components and sub-assemblies, or as excitation transducers for modal, academic, biomedical, or laboratory research. The shakers feature extremely rugged suspension systems using carbon fiber composite leaf armature flexures. Isolated linear bearings provide low distortion and eliminate the need for reaction wrenches when mounting loads to the armature. A trunnion base with EasyTurn™ handles allows for convenient mounting and positioning. Each transducer is delivered with a variety of 10-32 nylon stingers which provide electrical isolation as an attachment mechanism to test articles.

The compact design and portability make the 2004E/2007E minishakers a very versatile, accessible, and popular solution for test and instrumentation engineers. They are ideally suited for general purpose vibration testing of small components, electronic assemblies, Integrated Circuits and Printed Circuit Boards, or as an excitation transducer for experimental modal, academic, biomedical or laboratory research.

SPECIFICATI	ONS		
Performance		2004E	2007E
Output Force, sine pk			
Natural Air Cooling		4.5 lbf (20 N)	7 lbf (31 N)
Output Force, random RMS			
Natural Air Cooling		3 lbf (13.3 N)	5 lbf (22 N)
Output Force, shock pk		9 lbf (40 N)	15 lbf (67 N)
Stroke Length			
Continuous pk-pk		0.2 in (5 mm)	0.5 in (13 mm)
Between Stops		0.35 in (9 mm)	0.55 in (14 mm)
Frequency Range [1]		DC-11 kHz	DC-9 kHz
Acceleration [1] [2]		
No Load		64 g _{pk}	70 g _{pk}
0.1 lb load		26 g _{pk}	35 g _{pk}
1 lb load		4.2 g _{pk}	6.4 g _{pk}
2 lb load		2.2 g _{pk}	3.3 g _{pk}
Protection Features		Over-current (in-line fuse)	
Maximum Current		5 A	8 A
DC Resistance, armature, nominal		1.5 Ω	0.37 Ω
Physical			
Armature Mass, nominal		0.07 lb (0.032 kg)	0.1 lb (0.045 kg)
Suspension Stiffness, nominal		15 lbf/in (2.63 N/mm)	
Dimensions (H x W x D), nominal		5.3 x 6.75 x 3.5 in (135 x 171 x 89 mm)	
Weight		6 lb (2.72 kg)	
Electrical Connector		7 ft (2.13 m) Integral cable to ring terminals	
Table Mounting		10-32 thread	
Supplied Accessories			
2110G06 Nylon Stinger kit, pack of three			
Trunnion base with EasyTurn™ handles and mounting holes			
Related Products			
2100E21	SmartAmp™ Power Amplifier 400 W, 92% efficient, continuous gain adjustment		
208C01	Multi-purpose, ICP® force sensor, 10 lb (45 N) comp., 10 lb (45 N) tension, 500 mV/lb (10 mV/N)		
288D01	ICP® impedance head, force/accel: Force: 100 mV/lb (22.4 mV/N); Accel: 100 mV/g (10.2 mV/(m/s²))		
2110 Series	Stinger kit, 10-32 threaded nylon, various lengths, pack of three		
2120 Series	Stinger kit, 10-32 threaded stainless-steel, various lengths, pack of three		

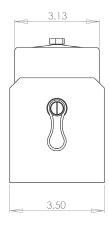


^[1] Load dependent.[2] Please see systems ratings for additional specifications.



Model 2004E-2007E - Front View

Dimensions in inches



Model 2004E-2007E - Side View

Dimensions in inches



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