

Miniature Shaker

VE series miniature shakers has a robust design to ensure a long life in use, and typical applications include structure analysis and testing smaller subassemblies. It provides a testing platform suitable for small components vibration testing and stress screening. These tests are widely needed among IC, IT, computer, electrics, and automotive components. Also it is a good vibration simulation demonstration system for educational customers.

Features

- Force Range from 20N to 500N
- Permanent Magnetic Structure
- Compact Design, portable and easy in use
- Digital Power Amplifier with Precise Control
- Embedded-in Power Amplifier
- System MTBF >10,000 Hours
- Multi-axis Design Option Available
- In Accordance with ISO, MIL, IEC and ASTM, etc.



Shaker Model	VE-5102	VE-5110	VE-5120	VE-5150
Rated Sine Force (N)	20	100	200	500
Usable Frequency Range (Hz)	2-10,000	2-7,000	2-7,000	5-5,000
Max. Acceleration (g)	20	40	80	34
Max. Displacement (mm, p-p)	5	13	13	10
Max. Static Payload (kg)	0.8	2	3	8
Armature Diameter (mm)	30	60	60	80
Effective Moving Elements Mass (kg)	0.1	0.25	0.25	1.5
Armature Fundamental Resonance (Hz)	>13k	>6.5k	>6.5k	>4k
Dimension (LxWxH, mm)	165x150x160	245x210x240	245x210x245	315x284x280
Weight (kg)	5	18	18	55
Cooling Mode	Natural Cooling	Air Cooling	Air Cooling	Air Cooling
Shaker Model with Slip Table	VE-5102ST	VE-5110ST	VE-5120ST	VE-5150ST
Slip Table Dimension (LxWxH, mm)	100x100x20	150x150x20	200x200x20	250x250x20
Slip Table Weight (kg)	0.4	1.6	2.3	4.9
Usable Frequency Range (Hz)	5-4,000	5-3,000	5-3,000	5-2,500
Max. Acceleration (g)	5	5	8	8
Max. Displacement (mm, p-p)	5	10	10	10
Max. Payload (kg)	1	3	3	12
Power Amplifier Model	VSA-H40A	VSA-L180A	VSA-L500A	VSA-L1000A
Max. Power Output (VA)	40	180	500	1200
Frequency Range (Hz)	2-10k	DC to 10kHz (±0.5dB), DC to 20kHz (±1.5dB)		
Working Mode	/	Linear mode, Voltage, Current		
Max. Voltage Output (Vrms)	12	27	45	72
Max. Current Output (Arms)	4	6.7	11.2	18
Harmonic Distortion	/	< 0.5%		
Signal to Noise Ratio (SNR)	/	> 90dB		

System Options

- Head expander/slip Table
- Fixture or jig design
- Modal stinger for modal test
- Cable Extension

Specifications subject to change without prior notice.

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Vibration Testing, Measurement, and Calibration