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Data Sheet

HD-EMB1604-LW26-R

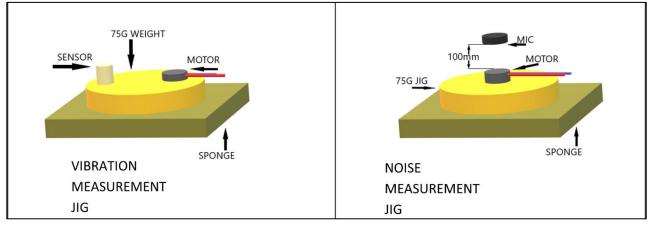
Features:

- Designed to be driven with 1.5 VDC
- 26mm lead wires for easy implementation
- Generates 14,000 RPMs with no more than 50 dBA acoustic noise

Specifications

Parameters	Values	Units
Rated Voltage	1.5	V _{DC}
Starting Voltage	1.2	V _{DC}
Operating Voltage Range	1.2 ~ 1.5	V _{DC}
Direction of Rotation	CW/CCW	-
Terminal Resistance	14 ± 20%	Ohms
Rated Speed (at 3 VDC)	14,000 ± 3,500	RPMs
Rated Current (at 3 VDC)	90	mA
Starting Current (Max)	140	mA
Shaft Pull Strength	3	Kg
Shaft End Play (Max)	0.3	mm
Mechanical Noise (Max)	50	dBA
Housing Material	SPC	-
Environmental Compliances	RoHS/REACH	-
Weight	0.8	Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +60	°C

Measurement Methods



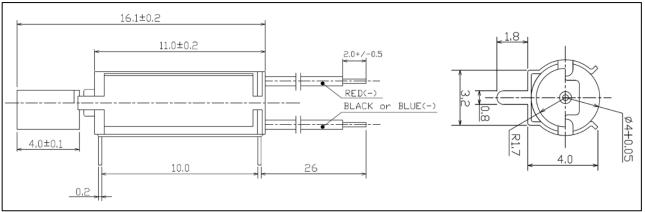
Reliability Testing

Type of Test	Test Specifications		
	Temperature: 85°C		
High Temperature Test	Test Duration Time: 96 hours		
	Temperature: -40°C		
Low Temperature Test	Test Duration Time: 96 hours		
	Temperature: 70°C		
	Room Humidity: 90%		
Humidity Test	Test Duration Time: 96 hours		
	Run for two cycles with the motor driving for 0.5 seconds on 0.5 seconds off:		
Temperature Cycle Testing	$+60^{\circ}C$ Temperature $-20^{\circ}C$ 0 1hr 2hr 3hr		
Vibration Test	3mm deflection at 1000 cycles per minute, for 10 minutes in each axis (X, Y, Z).		
Drop Test	Weight: Set linear vibration motor to ~100g (including linear vibration motor) weight of block. Drop Height: 150cm Floor Material: Steel Test Axis: ±X, ±Y, ±Z; total 6 faces Test Repetition: 2 time per face (12 total)		
Load Test	200,000 operating cycles at room temperature Test Cycle: 0.5 seconds on, 0.5 second off		

Acceleration, resistance, rated current and noise must meet specifications after allowing the device to rest for 12 hours after test.

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Dimensions



Packaging

ltem	Tray	Inner Box	Outer Box
DIV.	PET	Carton box	Carton box
Dimension	141(L) × 150(W) × 11(H)	150(L) × 160(W) × 115(H)	330(L) × 330(W) × 270(H)
Quantity	50ea	1,000ea	8,000ea

	Specifications	Revisions
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Revision	Description	Date
А	RELEASED FROM ENGINEERING	04/07/2022

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- 2. Specifications subject to change or withdrawal without notice.