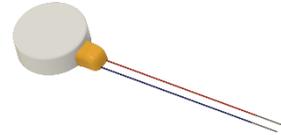




# PUI audio



Data Sheet	HD-EMC1003-3-LW27
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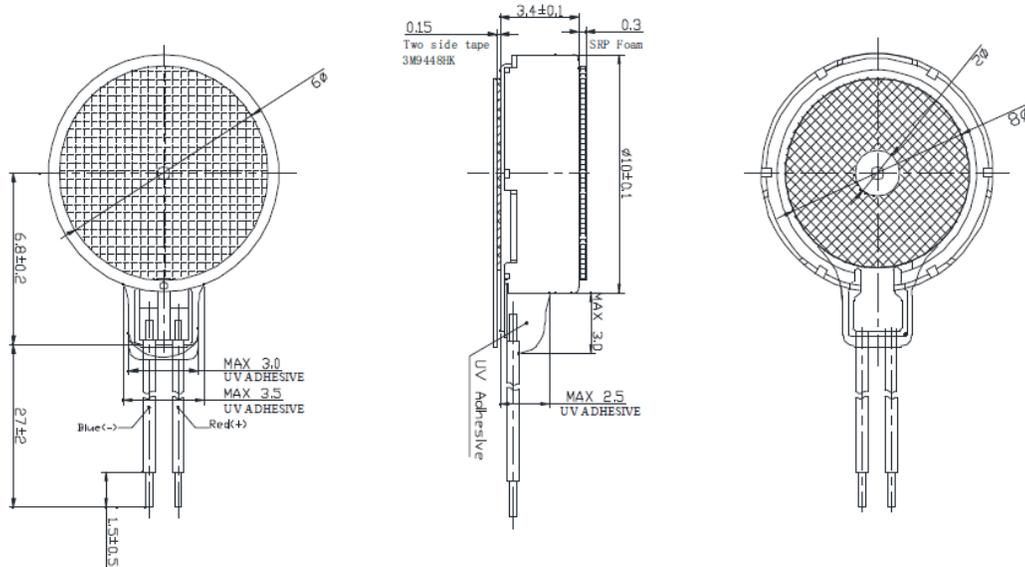
**Features:**

- Dual Magnet ERM with quicker response
- 80mA rated current, 11,000 rpm rated speed
- 10mm Coin style housing, lead wires, and connector for easy implementation.

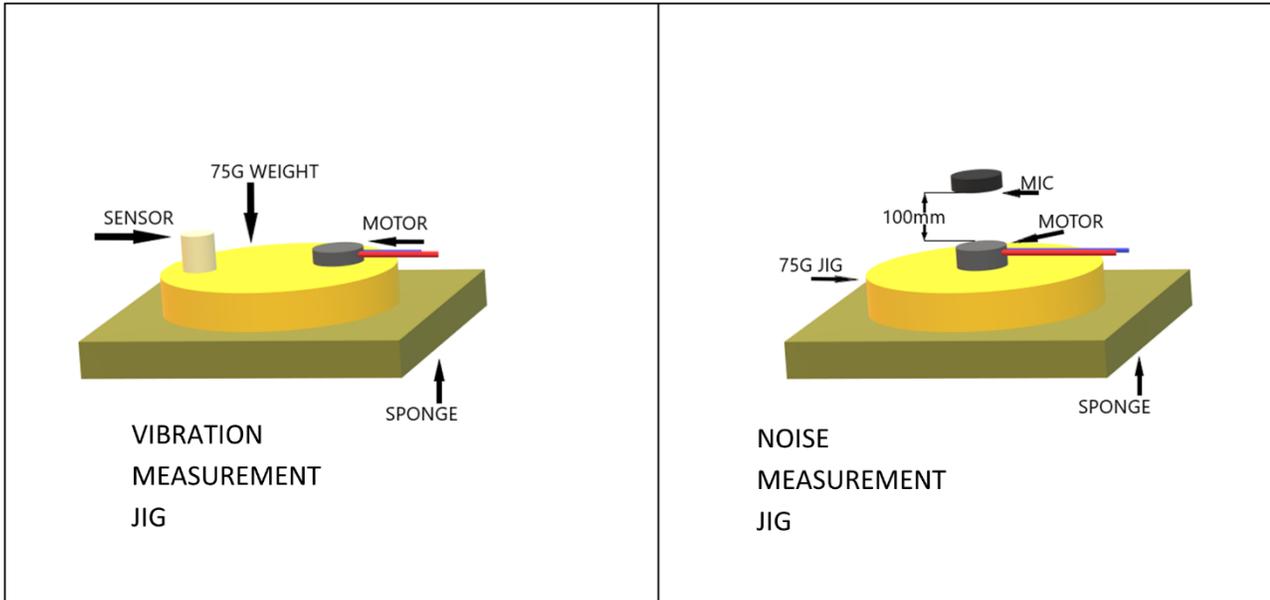
**Specifications**

Parameters	Values	Units
Input Voltage	2.5	V <sub>DC</sub>
Operating Voltage Range (DC)	1.1 ~ 2.5	V <sub>DC</sub>
Starting Voltage	2.5	V <sub>DC</sub>
Direction of Rotation	CW	-
Rated Speed Rated Voltage, Rated Load, Motor Fixed	11,000 ± 2,500	RPM
Rated Load Current Maximum at 2.5 V <sub>DC</sub> , Rated Load, Motor Fixed	80	mA
Starting Current Maximum at 1.1 V <sub>DC</sub> , Rotor Locked	120	mA
Mechanical Noise	≤ 50	dB
Weight	1.0 ± 0.3	Grams
Storage Temperature	-30 ~ +70	°C
Operating Temperature	-20 ~ +60	°C
Environmental Compliances	RoHS/REACH	-

**Dimensions**



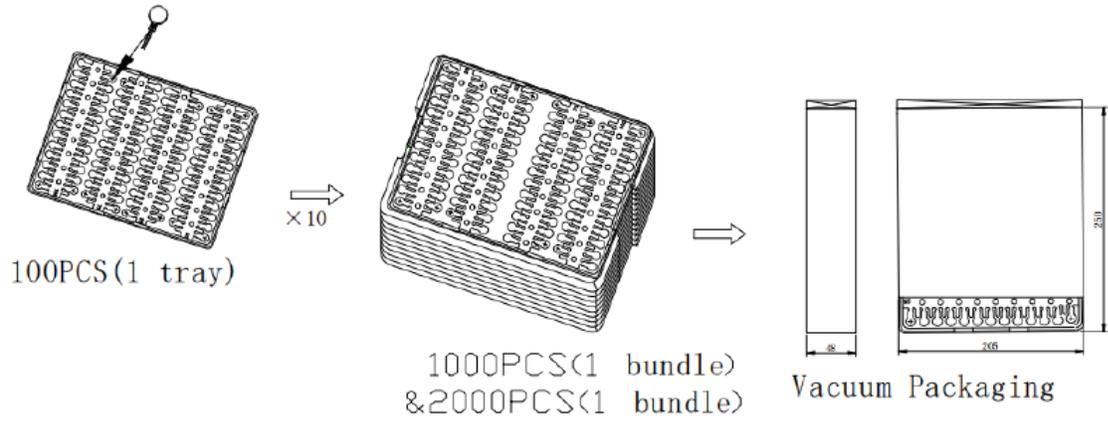
## Measurement Methods (Standard Jig)



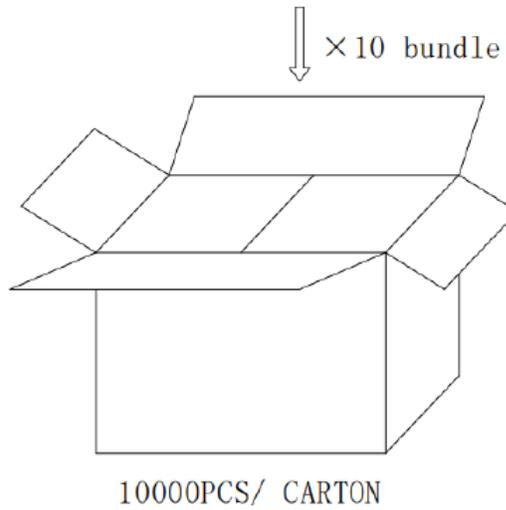
## Reliability Testing

Type of Test	Test Specifications	Judgement
Life Test	At rated voltage (3V): Cycle: 2s on, 1s continuous Cycle Count: 500,000	Allow device to rest 4 hours after each test. The following specifications must be met: <ol style="list-style-type: none"> <li>1. Rotating speed (initial <math>\pm 30\%</math>)</li> <li>2. Rated Load Current (initial <math>\pm 30\%</math>)</li> <li>3. Starting Voltage (2.5V Max)</li> </ol>
High Temperature Test	Temperature: $+80^{\circ}\text{C}$ Test Duration Time: 96 hours	
Low Temperature Test	Temperature: $-40\pm 2^{\circ}\text{C}$ Test Duration Time: 96 hours	
Humidity Test	Temperature: $+40^{\circ}\text{C}$ Relative Humidity: 90~95% Test Duration Time: 96 hours	
Thermal Shock Test	Temperature Cycle: $-40$ to $+85^{\circ}\text{C}$ Cycle Time: 2 hours Test Repetition: 50 cycles (100 hours total)	
Vibration Test	Vibration: 10 ~ 55 Hz, 2.2G acceleration Test Axis: XYZ Test Repetition: 10 minutes per axis (30 minutes total)	
Drop Test	Drop Condition: 1.5m onto iron plate at weight 100g Test Repetition: 1 time per side (6 total)	

## Packaging



10000PCS/CARTON:  
 CARTON SIZE: 430mm\*270mm\*220mm



### Specifications Revisions

Revision	Description	Date	Approved
A	RELEASED FROM ENGINEERING	12/13/2024	JD

Note:

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