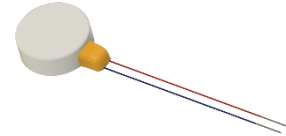




PUIaudio



Data Sheet

HD-EMC1003-3-LW27

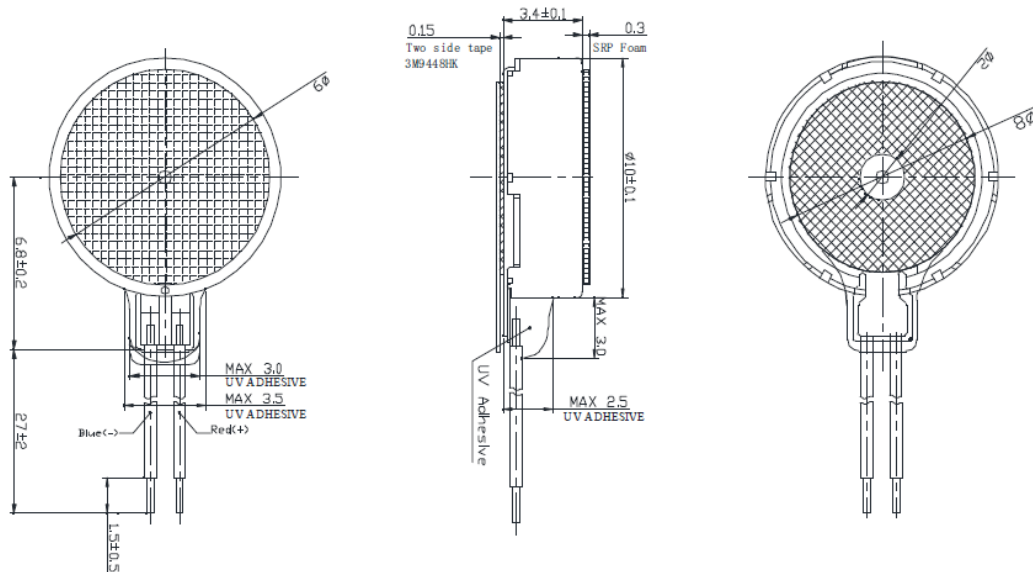
Features:

- 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.

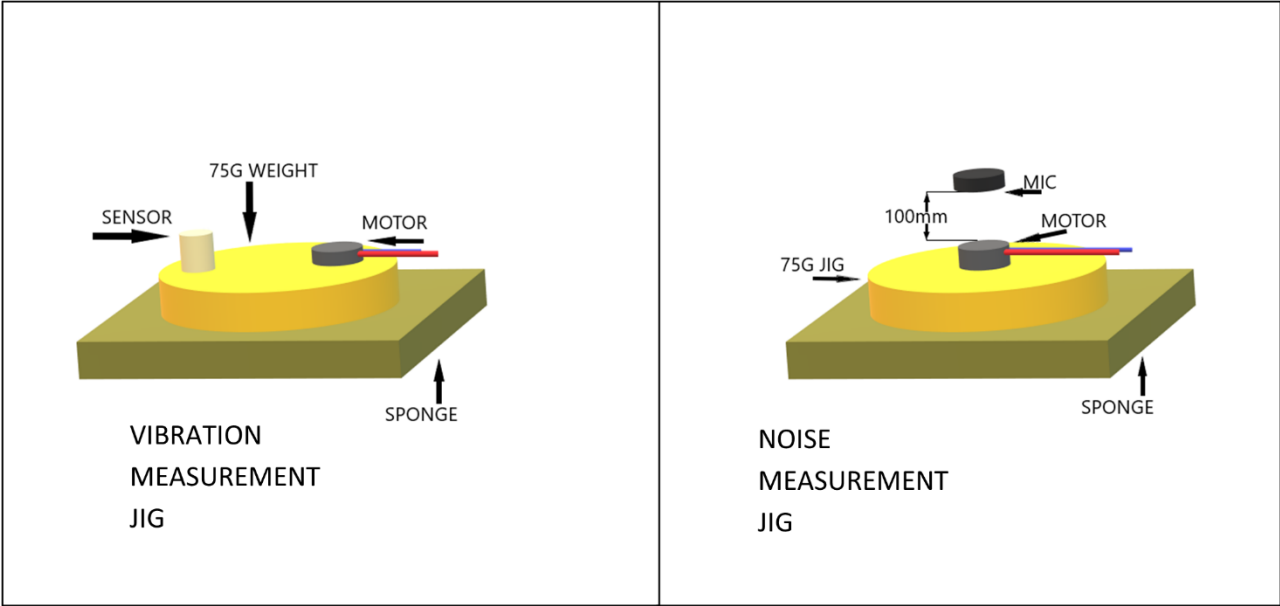
Specifications

Parameters	Values	Units
Input Voltage	2.5	V _{DC}
Operating Voltage Range (DC)	1.1 ~ 2.5	V _{DC}
Starting Voltage	2.5	V _{DC}
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 _{DC} , Rated Load, Motor Fixed	80	mA
Starting Current Maximum at 1.1 V _{DC} , 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



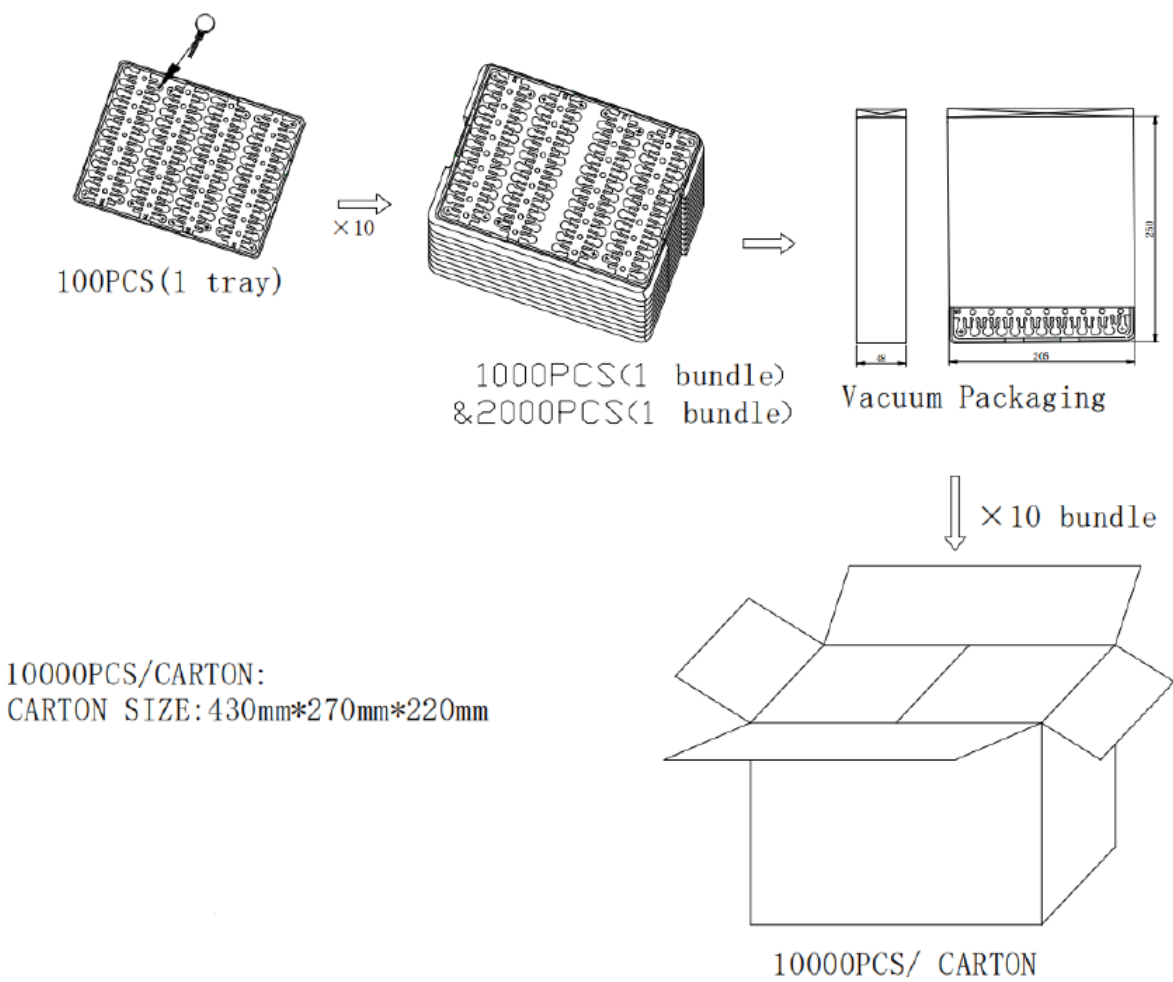
Measurement Methods (Standard Jig)



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: 1. Rotating speed (initial $\pm$ 30%) 2. Rated Load Current (initial $\pm$ 30%) 3. Starting Voltage (2.5V Max)
High Temperature Test	Temperature: +80°C Test Duration Time: 96 hours	
Low Temperature Test	Temperature: -40 $\pm$ 2°C Test Duration Time: 96 hours	
Humidity Test	Temperature: +40°C Relative Humidity: 90~95% Test Duration Time: 96 hours	
Thermal Shock Test	Temperature Cycle: -40 to +85°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



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

- Note:
- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ±0.5mm and angles are ±3°.ssw
 - 2. Specifications subject to change or withdrawal without notice.