

Data Sheet HD-EMC0903-LW27

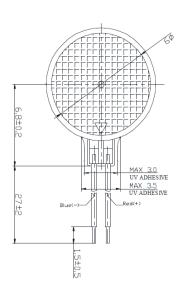
#### **Features:**

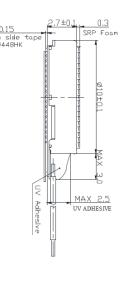
- 80mA rated current
- 10,000 rpm rated speed
- Coin style housing and lead wires for easy implementation.
- Brushless ERM motor

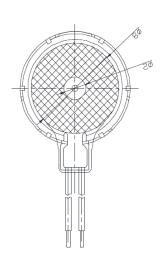
**Specifications** 

Parameters	Values	Units
Input Voltage	3.0	$V_{DC}$
Operating Voltage Range (DC)	2.5 ~ 3.8	$V_{DC}$
Starting Voltage	2.5	$V_{DC}$
Direction of Rotation	CW	-
Rated Speed Rated Voltage, Rated Load, Motor Fixed	10,000 ± 3,000	RPM
Rated Load Current Maximum at 3.0 V <sub>DC</sub> , Rated Load, Motor Fixed	80	mA
Starting Current Maximum at 2.5 V <sub>DC</sub> , Rotor Locked	200	mA
Mechanical Noise	≤ 50	dB
Weight		Grams
Storage Temperature	-20 ∼ +70	°C
Operating Temperature	-20 ∼ +70	°C
Environmental Compliances	RoHS/REACH	-

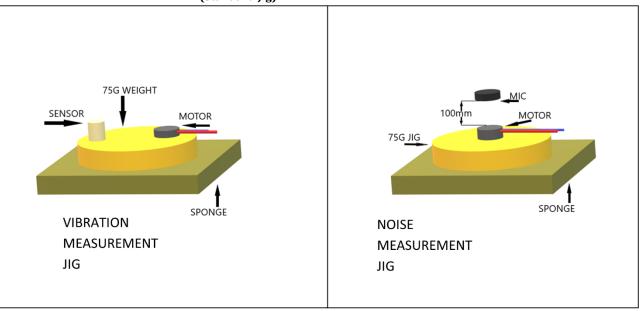
### **Dimensions**







# Measurement Methods (Standard Jig)

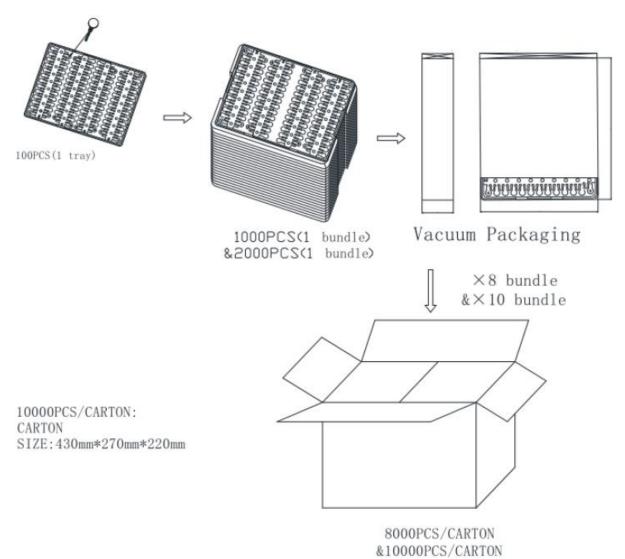


# **Reliability Testing**

Type of Test	Test Specifications	Judgement		
	At rated voltage (3V):			
	Cycle: 2s on, 1s continuous			
Life Test	Cycle Count: 500,000			
	Temperature: +80°C			
High Temperature Test	Test Duration Time: 96 hours			
	Temperature: -30±2°C			
Low Temperature Test	Test Duration Time: 96 hours			
	Temperature: +65°C	Allow device to rest 4 hours		
	Relative Humidity: 90~95%	after each test. The following		
Humidity Test	Test Duration Time: 96 hours	specifications must be met:		
	Temperature Cycle: -40 to +80°C	1. Rotating speed		
	Cycle Time: 2 hours	(initial ± 30%)		
	Test Repetition: 10 cycles (20 hours	2. Rated Load Current		
Thermal Shock Test	total)	(initial ± 30%)		
	Vibration: $10 \sim 55 \sim 10$ Hz,	3. Starting Voltage		
	2.2G acceleration	(2.5V Max)		
Vibration Test	Test Axis: XYZ			
	Test Repetition: 30 minutes per axis			
	(30 minutes total)			
Drop Test	Drop Condition: 1.5m onto iron plate			
	at weight 150g			
	Test Repetition: 1 time per side (6			
	total)			

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### **Packaging**



**Specifications Revisions** 

opecinications revisions				
Revision	Description	Date	Approved	
Α	RELEASED FROM ENGINEERING	12/13/2024	JD	

#### Note:

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