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### Data Sheet

#### HD-EMC1103-LW27

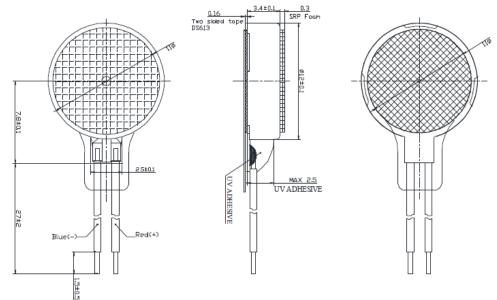
Features:

- 85mA rated current
- 8,000 rpm rated speed
- Coin style housing and lead wires for easy implementation.
- Brushless

#### **Specifications**

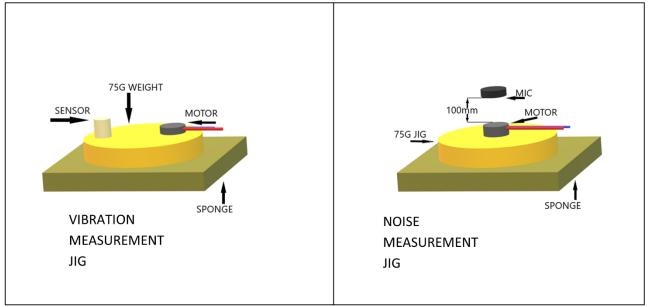
Parameters	Values	Units
Input Voltage	3.7	V <sub>DC</sub>
Operating Voltage Range (DC)	3.0 ~ 4.5	V <sub>DC</sub>
Starting Voltage	2.5	V <sub>DC</sub>
Direction of Rotation	CW	-
Rated Speed Rated Voltage, Rated Load, Motor Fixed	8,000 ± 3,000	RPM
Rated Load Current Maximum at 3.7 V <sub>DC</sub> , Rated Load, Motor Fixed	85	mA
Starting Current Maximum at 2.5 V <sub>DC</sub> , Rotor Locked	170	mA
Mechanical Noise	≤ 50	dB
Weight		Grams
Storage Temperature	-20 ~ +70	°C
Operating Temperature	-20 ~ +70	°C
Environmental Compliances	RoHS/REACH	-

#### Dimensions



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# Measurement Methods (Standard Jig)



# **Reliability Testing**

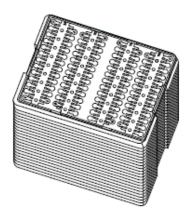
Type of Test	Test Specifications	Judgement		
	At rated voltage (3.7V):			
	Cycle: 1s on, 1s continuous			
Life Test	Cycle Count: 1,800,000			
	Temperature: +80±2°C			
High Temperature Test	Test Duration Time: 96 hours			
	Temperature: -30±2°C			
Low Temperature Test	Test Duration Time: 96 hours			
	Temperature: +65±2°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 +85°C	1. Rotating speed		
	Cycle Time: 2 hours	(initial ± 30%)		
	Test Repetition: 50 cycles (100 hours	2. Rated Load Current		
Thermal Shock Test	total)	(initial ± 30%)		
	Vibration: 10 ~ 55 Hz,	3. Starting Voltage		
	2.2G acceleration	(2.5V Max)		
Vibration Test	Test Axis: XYZ			
	Test Repetition: 30 minutes per axis			
	(90 minutes total)			
Drop Test	Drop Condition: 1.5m onto iron plate			
	at weight 150g			
r ×000	Test Repetition: 3 time per side (18			
	total)			

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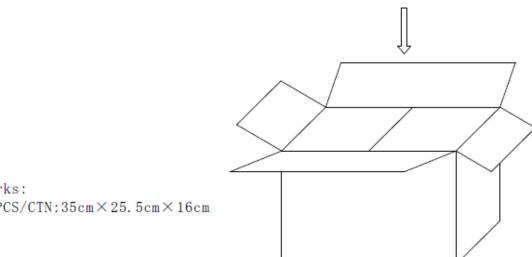
# Packaging



100PCS(1 tray) × 20



2000PCS(1 bundle)



Remarks: 2000PCS/CTN: 35cm×25.5cm×16cm

Specifications	Revisions
Specifications	ICC VISIONS

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

Note:

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

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

PUI Audio:

HD-EMC1103-LW27