

Data Sheet HD-EMB2107-LW27

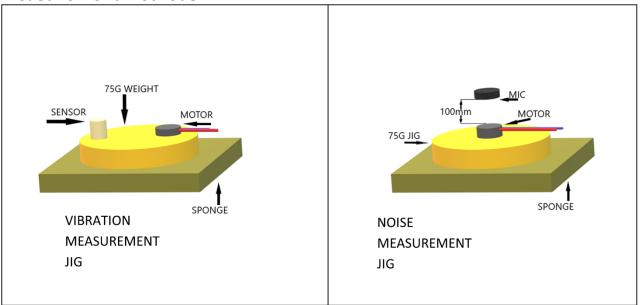
#### **Features:**

- 20.5mm x 6.6mm cylindrical design
- Coreless brush motor with lower friction and energy losses
- 7,500 rpm rated speed
- Lead wires and through hole mounts for easy installation

## **Specifications**

Parameters	Values	Units
Input Voltage (DC)	1.3	$V_{ ext{DC}}$
Starting Voltage (DC)	0.75	$V_{ extsf{DC}}$
Operating Voltage Range (DC)	$0.9 \sim 1.6$	$ m V_{DC}$
Direction of Rotation	CW/CCW	-
Rated Speed	7,500 ± 2,000	RPM
Rated Current (Max at 1.6 V <sub>DC</sub> )	80	mA
Starting Current (Max at 1.3 V <sub>DC</sub> )	0.75	mA
Terminal Resistance	11 ± 20%	Ohms
Shaft End Play (Max)	0.3	mm
Mechanical Noise (Max)	50	dBA
Environmental Compliances	RoHS/REACH	-
Weight	0.8	Grams
Storage Temperature	-40 ∼ +85	°C
Operating Temperature	-20 ~ +60	°C

#### **Measurement Methods**



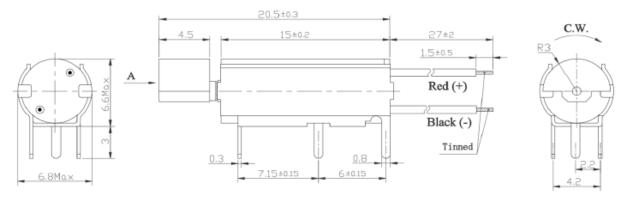
**Reliability Testing** 

Type of Test	Test Specifications		
	Temperature: +60±2°C		
High Temperature Test	Test Duration Time: 96 hours		
	Temperature: -40±2°C		
Low Temperature Test	Test Duration Time: 96 hours		
	Temperature: 40°C		
	Relative Humidity: 90~95%		
Humidity Test	Test Duration Time: 96 hours		
	Temperature Cycle: -30 to +70°C		
	Cycle Time: 2 hours		
Thermal Shock Test	Test Repetition: 20 cycles (40 hours total)		
	Voltage: 1.3 Vdc		
	Test Mode: 0.5sec On, 0.5sec Off, as 1 cycle		
	Total Cycles: 200,000		
Lifetime test	0.5= 0.5= 1 cycle		
Duran Tark	Drop Condition: 1.5m onto iron plate at weight 75g		
Drop Test	Test Repetition: 2 times per side (6 total)		
Load Test	200,000 operating cycles at room temperature		
Luau Test	Test Cycle: 0.5 seconds on, 0.5 seconds off		
Vibration Test	Displacement: 1.5mm; Frequency: 10 to 55 Hz		
VIDIAUOII IESU	Direction: X, Y, and Z; Duration: 2 hours each direction		

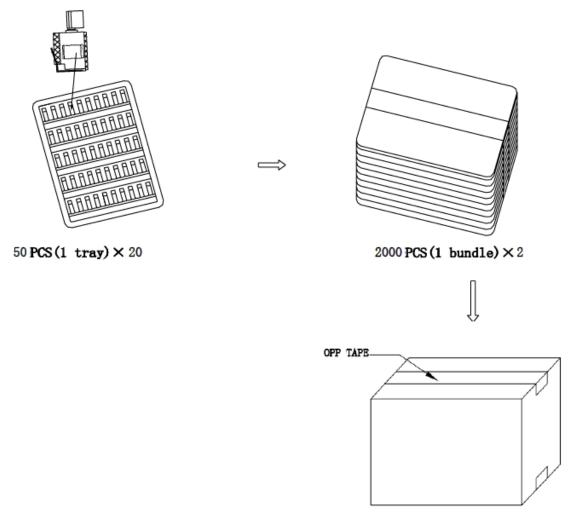
Rated current, speed, starting voltage, and mechanical noise must meet specifications after allowing the device to rest for 2 hours after test.

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## **Dimensions**



# **Packaging**



Remarks:

4000PCS/CTN: 44\*22\*27.5cm

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**Specifications 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  $\pm 0.1$ mm and angles are  $\pm 3^{\circ}$ .
- $2. \quad \text{Specifications subject to change or with drawal without notice.} \\$