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Data Sheet

### HD-EMB1706-LW25-R

#### **Features:**

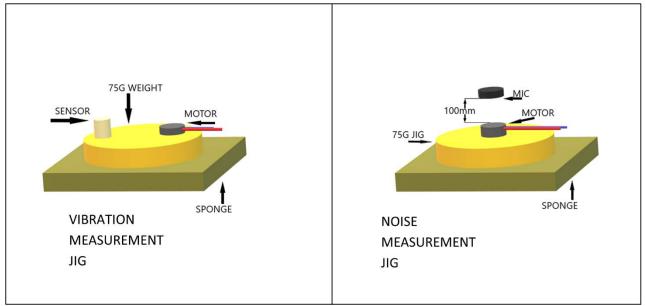
- Designed to be driven with a 3V DC signal
- Convenient spring contacts for easy implementation
- Generates 12,000 rpm with less than 50dB mechanical noise

#### **Specifications**

Parameters	Values	Units
Input Voltage (DC)	3.0	V <sub>DC</sub>
Starting Voltage (DC)	2.4	V <sub>DC</sub>
Operating Voltage Range	2.4 ~ 3.6	V <sub>DC</sub>
Direction of Rotation	CW/CCW	-
Rated Speed	9,000 ± 2,500	RPM
Rated Current (Max at 3.0 V <sub>DC</sub> )	80	mA
Locked Current (Max at 2.4 V <sub>DC</sub> )	120	mA
Terminal Resistance	30 ± 20%	Ohms
Shaft Pull Strength (Min)	3	Kg
Shaft End Play (Max)	0.3	mm
Mechanical Noise (Max)	55	dBA
Housing Material	SPC	-
Environmental Compliances	RoHS/REACH	-
Weight	1	Grams
Storage Temperature	-40 ~ +80	°C
Operating Temperature	-30 ~ +70	°C

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#### **Measurement Methods**



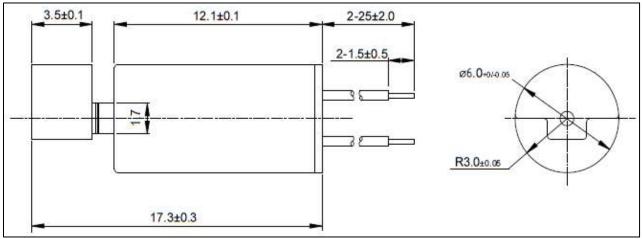
#### **Reliability Testing**

Type of Test	Test Specifications		
	Temperature: +80±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%		
Humidity Test	Test Duration Time: 96 hours		
	Drive motor for 2 seconds on, 2 seconds off		
	Repeat cycle shown 2 times		
Temperature Cycle Testing	-60°C -60°C -20°C 0 1hr 2hr 3hr		
	Vibration: 3mm, 1000cpm		
Vibration Test	Test Axis: XYZ		
	Test Repetition: 10 minutes per axis (30 minutes total)		
Drop Test	Drop Condition: 1.5m onto iron plate at weight 150g		
	Test Repetition: 3 times per side (18 total)		
Load Test	50,000 operating cycles at room temperature Test Cycle: 2 seconds on, 2 second off		

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

ltem	Tray	Inner Box	Outer Box	
DIV.	PET	PET Carton box Carton box		
Dimension	141(L) × 150(W) × 11(H)	150(L) × 160(W) × 115(H)	330(L) × 330(W) × 270(H)	
Quantity	50ea	500ea	4,000ea	

Specifications	Revisions

Revision	Description	
А	RELEASED FROM ENGINEERING	04/08/2022

Note:

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