

Data Sheet

HD-EMB1104-LW15-R

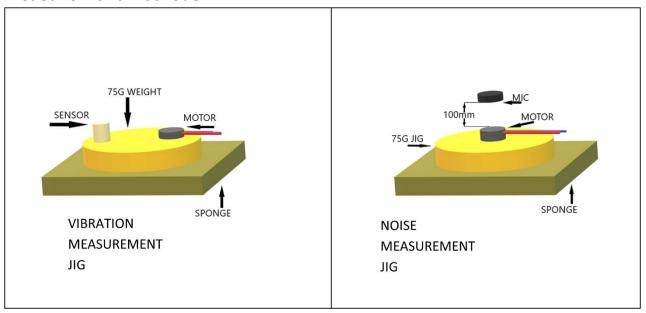
Features:

- Designed to be driven with a 3V DC signal
- Convenient 15mm lead wires for easy implementation
- Generates 12,000 rpm with less than 50dB mechanical noise

Specifications

Parameters	Values	Units
Input Voltage (DC)	3	V_{DC}
Starting Voltage (DC)	2.4	$V_{ ext{DC}}$
Operating Voltage Range	2.4 ~ 3.6	V_{DC}
Direction of Rotation	CW/CCW	-
Rated Speed	12,000 ± 3,000	RPM
Rated Current (Max at 3.0 V _{DC})	90	mA
Starting Current (Max at 2.4 V _{DC})	120	mA
Terminal Resistance	30 ± 20%	Ohms
Shaft Pull Strength (Min)	3	Kg
Shaft End Play (Max)	0.3	mm
Mechanical Noise (Max)	50	dBA
Housing Material	SPC	-
Environmental Compliances	RoHS/REACH	-
Weight	1	Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +60	°C

Measurement Methods



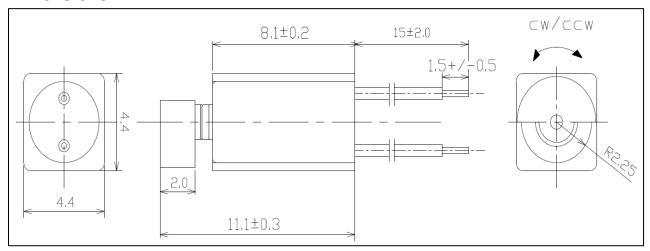
Reliability Testing

Type of Test	Test Specifications		
	Temperature: +85±2°C		
High Temperature Test	Test Duration Time: 96 hours		
	Temperature: -40±2°C		
Low Temperature Test	Test Duration Time: 96 hours		
	Temperature: 70°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 (8 hours total)		
Temperature Cycle Testing	1cycle 1cycle		
	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		
Drop rest	Test Repetition: 6 times per side (36 total)		
Load Test	60,000 operating cycles at room temperature Test Cycle: 2 seconds on, 2 seconds off		

Rated current, speed, starting voltage, and mechanical noise must meet specifications after allowing the device to rest for 12 hours after test.

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Dimensions



Packaging

Item	Tray	Inner Box Outer Box		
DIV.	PET	Carton box	Carton box	
Dimension	141(L) x 150(W) x 11(H)	150(L) x 160(W) x 115(H)	330(L) x 330(W) x 270(H)	
Quantity	50ea	1,000ea	8,000ea	

Specifications Revisions

Revision	Description	Date
Α	RELEASED FROM ENGINEERING	04/08/2022

Note:

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