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Data Sheet

HD-EMB1205-LW30-R

Features:

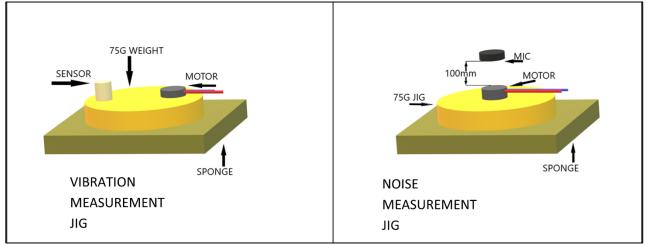
- Designed to be driven with a 3V DC signal
- Convenient 30mm lead wires for easy implementation
- Generates 10,000 rpm with less than 50dB mechanical noise

Specifications

Parameters	Values	Units
Input Voltage (DC)	3	V _{DC}
Starting Voltage (DC)	2.4	V _{DC}
Operating Voltage Range (DC)	2.5 ~ 3.7	V _{DC}
Direction of Rotation	CW/CCW	-
Rated Speed	10,000 ± 3,000	RPM
Rated Current (Max at $3.0 V_{DC}$)	90	mA
Starting Current (Max at $2.4 V_{DC}$)	130	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	(approx.) 1	Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +60	°C

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Measurement Methods



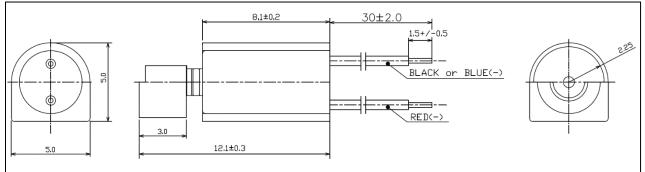
Reliability Testing

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		
	Temperature Cycle: -40 to +85°C		
	Cycle Time: 1 hour		
Thermal Shock Test	Test Repetition: 24 cycles (24 hours total)		
	Drive motor for 0.5 seconds on, 0.5 seconds off at rated		
	voltage		
	Repeat cycle shown 2 times (8 hours total)		
Temperature Cycle Testing	-60 °C -60 °C -20 °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 Tost	Drop Condition: 1.5m onto iron plate at weight 150g		
Drop Test	Test Repetition: 2 times per side (12 total)		
Load Test	200,000 operating cycles at room temperature Test Cycle: 0.5 seconds on, 0.5 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

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

Specifications Revisions				
Revision	dision Description			
А	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.