

Data Sheet

HD-EMC1003-LW40-R

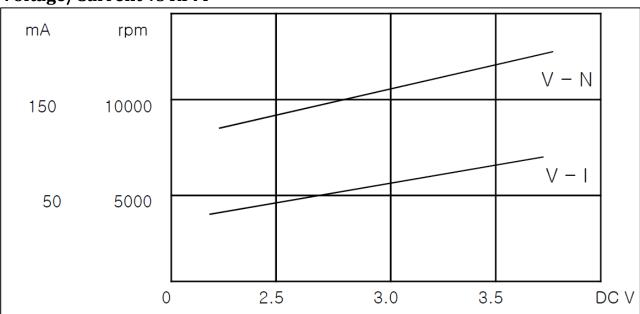
Features:

- Designed to be driven with a 3.0V DC signal
- Coin style housing and 40mm lead wires for easy implementation
- Efficiently generates 12,000 rpm

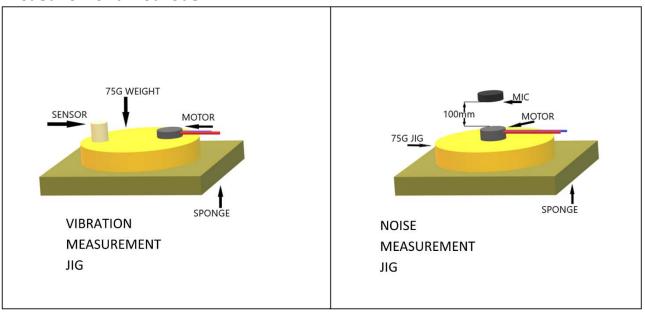
Specifications

Parameters	Values	Units
Input Voltage (DC)	3.0	$V_{ extsf{DC}}$
Starting Voltage (DC)	2.4	$ m V_{DC}$
Operating Voltage Range (DC)	2.5 ~ 3.5	$ m V_{DC}$
Direction of Rotation	CW/CCW	-
Rated Speed	$12,000 \pm 3,000$	RPM
Rated Current (Max at 3.0 V _{DC})	85	mA
Locked Current (Max at 2.4 V _{DC})	140	mA
Terminal Resistance (single-phase)	26 ± 10%	Ohms
Terminal Resistance (double-phase)	52 ± 10%	Ohms
Environmental Compliances	RoHS/REACH	-
Weight	1.3	Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ∼ +70	°C

Voltage/Current vs RPM



Measurement Methods



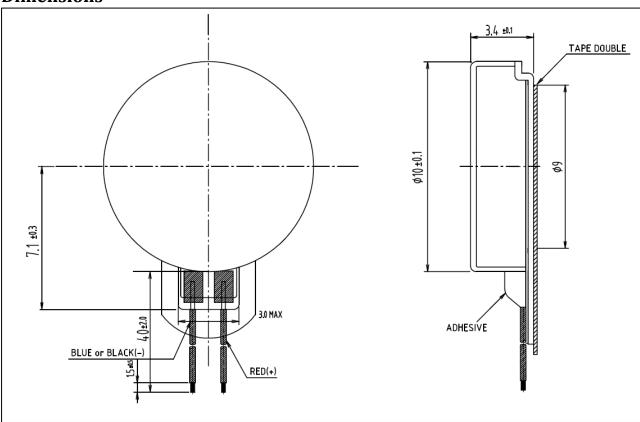
Reliability Testing

Type of Test	Test Specifications	
	Temperature: +85°C	
High Temperature Test	Test Duration Time: 168 hours	
	Temperature: -40±2°C	
Low Temperature Test	Test Duration Time: 168 hours	
	Temperature: 50°C	
	Relative Humidity: 95%	
Humidity Test	Test Duration Time: 120 hours	
	Temperature Cycle: -40 to +85°C	
	Cycle Time: 2 hours	
Thermal Shock Test	Test Repetition: 15 cycles (30 hours total)	
	Vibration: 10 ~ 55 Hz, 2.2G acceleration, 100g weight	
Vibration Test	Test Axis: XYZ	
	Test Repetition: 10 minutes per axis (30 minutes total)	
Dwan Toot	Drop Condition: 1.5m onto iron plate at weight 100g	
Drop Test	Test Repetition: 1 time per side (6 total)	
Load Test	57,600 operating cycles at room temp. & rated voltage	
Luau Test	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 4 hours after test.

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Dimensions



Packaging

ltem	Tray	Inner Box	Outer Box	
DIV.	PET	No inner box 1 bundle 215(L) x 170(W) x 60((H) 1,000ea		
Dimension	215(L) x 170(W) x 11(H)		Outer box size is different one by packing quantity	
Quantity	100ea			

Specifications Revisions

Specifications revisions					
Revision	ision Description				
Α	RELEASED FROM ENGINEERING	04/14/2022			

Note:

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