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Data Sheet

HD-EMC1003-2-LW15-R

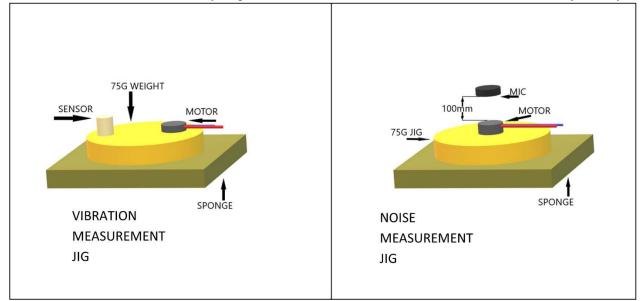
Features:

- Designed to be driven with a 3.0V DC signal
- Convenient 15mm lead wires and double-sided tape for easy implementation
- Generates 13,000 rpm with less than 50dB mechanical noise

Specifications

Parameters	Values	Units
Input Voltage (DC)	3.0	V _{DC}
Starting Voltage (DC)	2.4	V _{DC}
Operating Voltage Range (DC)	2.5 ~ 3.6	V _{DC}
Direction of Rotation	CW/CCW	-
Rated Speed	13,000 ± 3,000	RPM
Rated Current (Max at $3.0 V_{DC}$)	85	mA
Starting Current (Max at $2.4 V_{DC}$)	140	mA
	Phase 1: 28 ± 20%	Ohms
Terminal Resistance	Phase 2: 56 ± 20%	OIIIIS
Shaft Pull Strength (Min)	1	Kg
Mechanical Noise (Max)	50	dBA
Environmental Compliances	RoHS/REACH	-
Weight	(approx.) 1	Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +70	°C

Measurement Methods (Temperature: 25±2°C; RH: 45 ~ 85%; Motor Position: Horizontally locked)



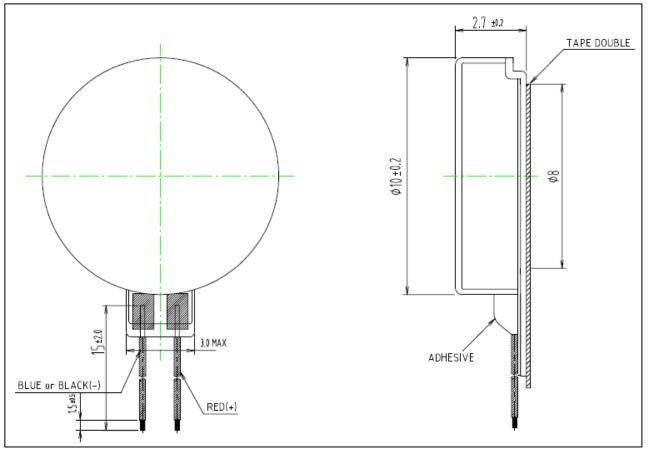
Reliability Testing

Type of Test	Test Specifications	
	Temperature: +85°C	
High Temperature Test	Test Duration Time: 96 hours	
	Temperature: -40°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 2.0 seconds on, 2.0 seconds off at rated voltage	
	Repeat cycle shown 2 times (8 hours total)	
Temperature Cycle Testing	-60 °C -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: 6 times per side (36 total)	
Load Test	100,000 operating cycles at room temperature Test Cycle: 2.0 seconds on, 2.0 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	No inner box	Outer box size is different one by packing quantity	
Dimension	215(L) × 170(W) × 11(H)	1 bundle 215(L) × 170(W) × 60((H)		
Quantity	100ea	1,000ea		

Specifications Revisions				
Revision	Description	Date		
А	RELEASED FROM ENGINEERING	04/08/2022		

Note:

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