



Data Sheet	HD-EMB1606-SC
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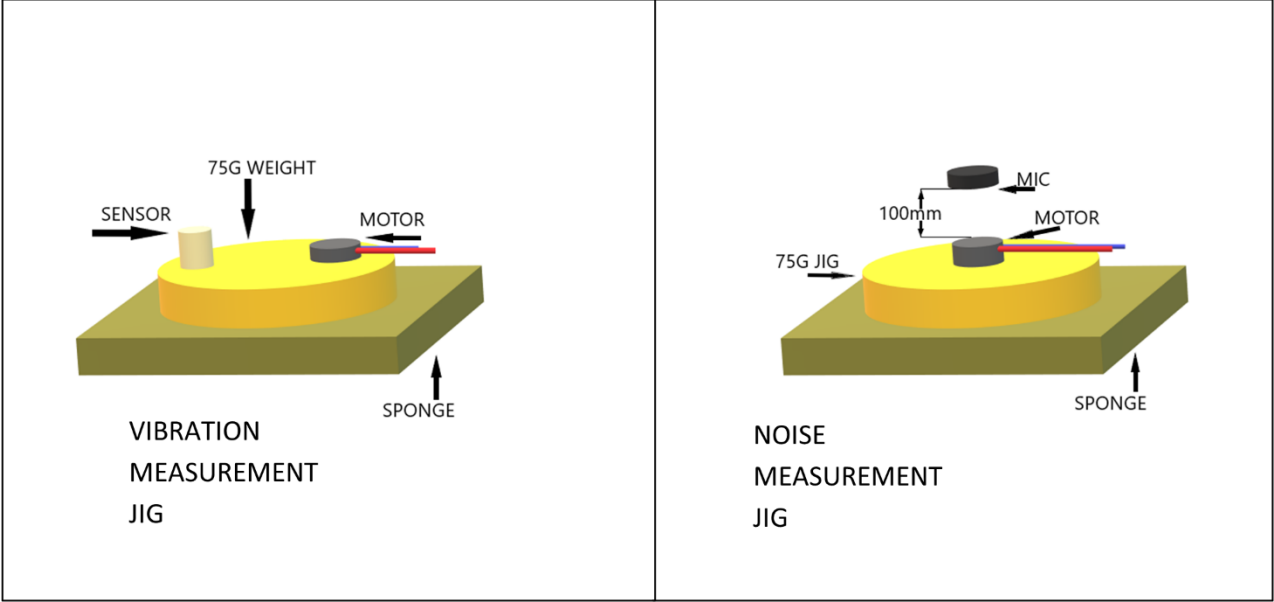
Features:

- 16.2mm x 6mm cylindrical design
- 105mA rated current
- 11,000 rpm rated speed
- Spring contacts

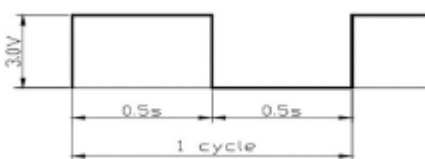
Specifications

Parameters	Values	Units
Input Voltage (DC)	3	V _{DC}
Starting Voltage (DC)	1.7	V _{DC}
Operating Voltage Range (DC)	2.2 ~ 3.6	V _{DC}
Direction of Rotation	CW/CCW	-
Rated Speed	11,000 ± 2,500	RPM
Rated Current (Max at 3.0 V _{DC})	75	mA
Starting Current (Max at 3.0 V _{DC})	105	mA
Terminal Resistance	36 ± 20%	Ohms
Shaft End Play (Max)	0.2	mm
Mechanical Noise (Max)	50	dBA
Environmental Compliances	RoHS/REACH	-
Weight	0.8	Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +60	°C

Measurement Methods

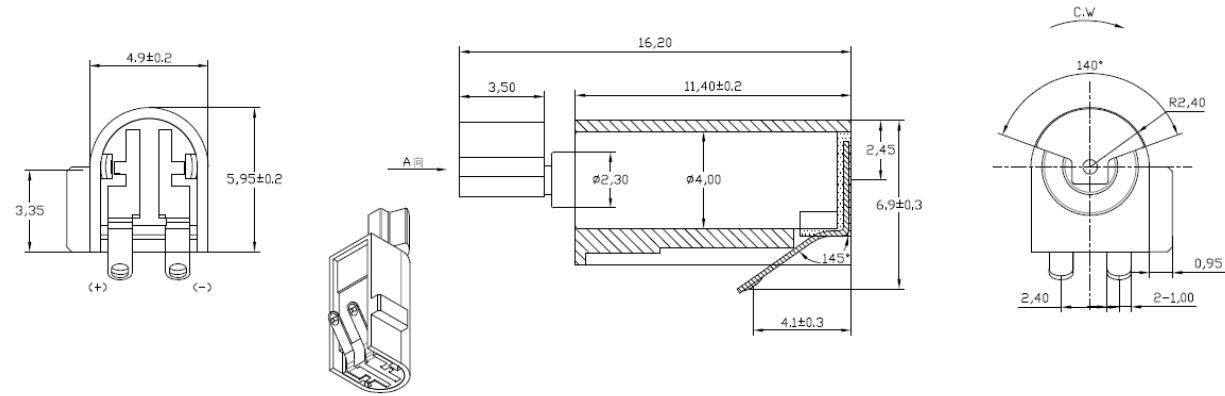


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Temperature: +60±2°C Test Duration Time: 96 hours
Low Temperature Test	Temperature: -40±2°C Test Duration Time: 96 hours
Humidity Test	Temperature: 40°C Relative Humidity: 90~95% Test Duration Time: 96 hours
Thermal Shock Test	Temperature Cycle: -30 to +70°C Cycle Time: 2 hours Test Repetition: 20 cycles (40 hours total)
Lifetime test	Voltage: 3.0 Vdc Test Mode: 0.5sec On, 0.5sec Off, as 1 cycle Total Cycles: 200,000 
Drop Test	Drop Condition: 1.5m onto iron plate at weight 75g Test Repetition: 2 times per side (6 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 2 hours after test.

Dimensions



Packaging

- 100 pcs/tray, size of tray: 230mm*158mm*15mm.
- 10 trays/stack, Qty/ stack: 1000pcs.
- 2 stacks/inner box, Qty/inner box: 2000pcs.
- 2 inner boxes/carton, size of carton: 340mm*290mm*255mm..

Specifications Revisions			
Revision	Description	Date	Approved
A	RELEASED FROM ENGINEERING	12/13/2024	JD

- Note:
- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are $\pm 0.1\text{mm}$ and angles are $\pm 3^\circ$.
 - 2. Specifications subject to change or withdrawal without notice.