



PUIaudio



Data Sheet

HD-EMB1706-LW25-R

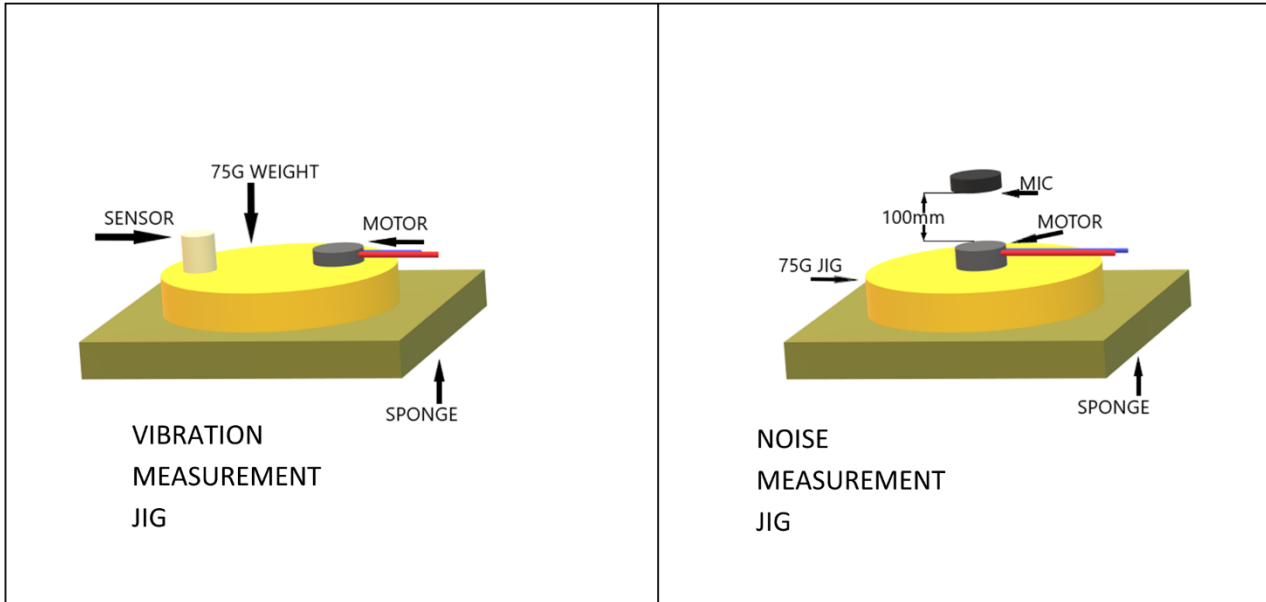
Features:

- Designed to be driven with a 3V DC signal
- Convenient spring contacts for easy implementation
- Generates 12,000 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	2.4 ~ 3.6	V _{DC}
Direction of Rotation	CW/CCW	-
Rated Speed	9,000 ± 2,500	RPM
Rated Current (Max at 3.0 V _{DC})	80	mA
Locked 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)	55	dBA
Housing Material	SPC	-
Environmental Compliances	RoHS/REACH	-
Weight	1	Grams
Storage Temperature	-40 ~ +80	°C
Operating Temperature	-30 ~ +70	°C

Measurement Methods



Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Temperature: $+80\pm 2^{\circ}\text{C}$ Test Duration Time: 96 hours
Low Temperature Test	Temperature: $-40\pm 2^{\circ}\text{C}$ Test Duration Time: 96 hours
Humidity Test	Temperature: 40°C Relative Humidity: 90% Test Duration Time: 96 hours
Temperature Cycle Testing	Drive motor for 2 seconds on, 2 seconds off Repeat cycle shown 2 times
Vibration Test	Vibration: 3mm, 1000cpm Test Axis: XYZ Test Repetition: 10 minutes per axis (30 minutes total)
Drop Test	Drop Condition: 1.5m onto iron plate at weight 150g Test Repetition: 3 times per side (18 total)
Load Test	50,000 operating cycles at room temperature Test Cycle: 2 seconds on, 2 second off

Rated current, speed, starting voltage, and mechanical noise must meet specifications after allowing the device to rest for 2 hours after test.