



PUIaudio



Data Sheet

HD-EMB2212

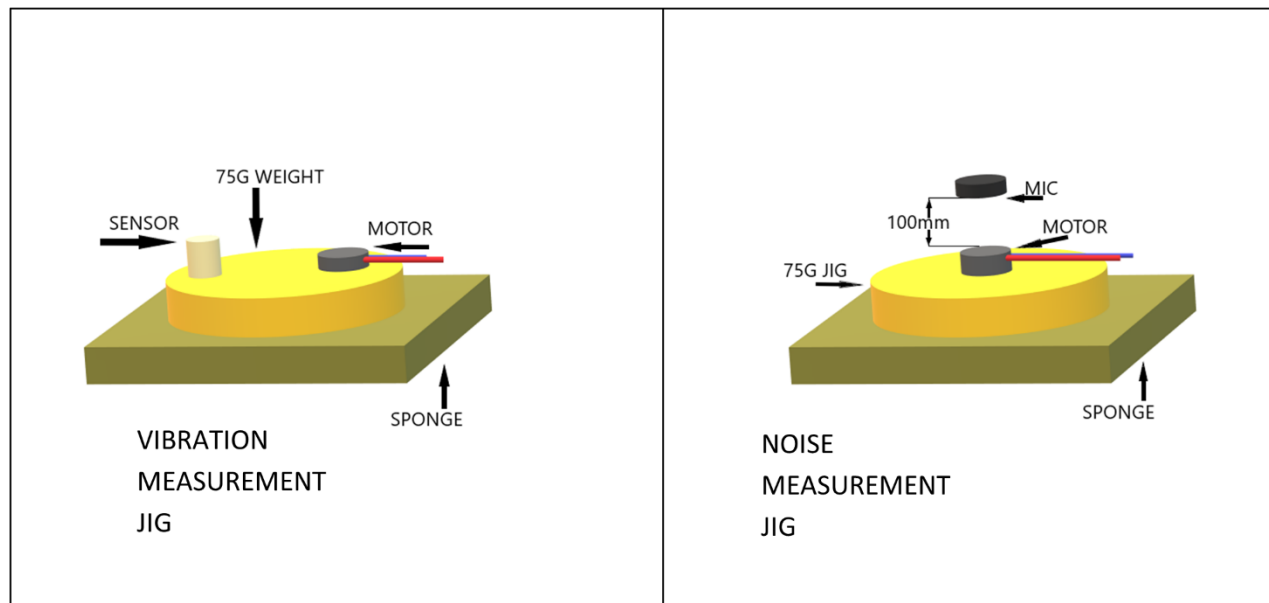
Features:

- Powerful vibration force up to 3.2G
- 21.5mm x 12mm cylindrical design
- 110mA rated current
- 7,500 rpm rated speed

Specifications

Parameters	Values	Units
Input Voltage (DC)	3.7	V _{DC}
Starting Voltage (DC)	1.2	V _{DC}
Operating Voltage Range (DC)	2.0 ~ 5.0	V _{DC}
Direction of Rotation	CW	-
Rated Speed	7,500 ± 15%	RPM
Rated Current (Max at 5.0 V _{DC})	110	mA
Starting Current (Max at 3.7 V _{DC})	220	mA
Shaft End Play (Max)	0.35	mm
Mechanical Noise (Max)	50	dBA
Environmental Compliances	RoHS/REACH	-
Weight	5.8	Grams
Storage Temperature	-20 ~ +70	°C
Operating Temperature	-20 ~ +60	°C

Measurement Methods

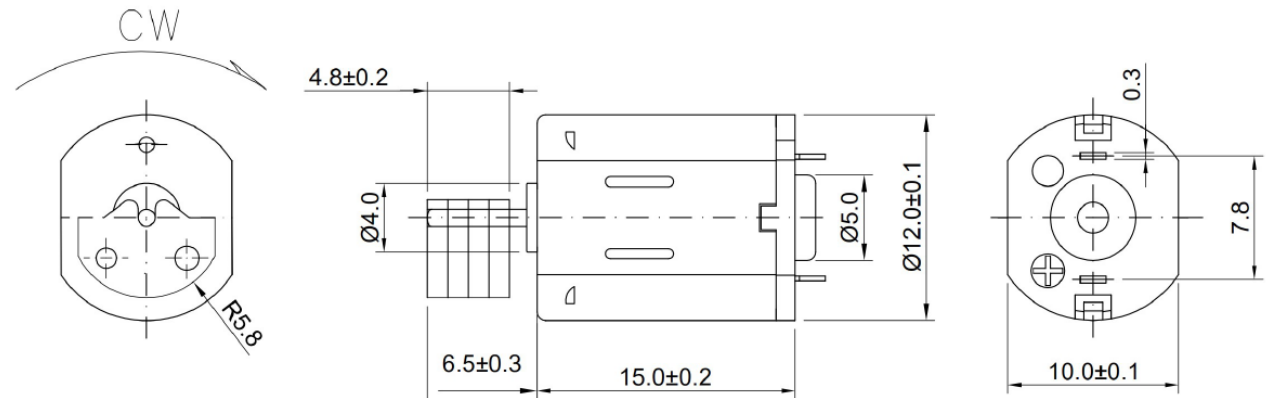


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Temperature: $+60\pm 2^{\circ}\text{C}$ Test Duration Time: 72 hours
Low Temperature Test	Temperature: $-40\pm 2^{\circ}\text{C}$ Test Duration Time: 72 hours
Humidity Test	Temperature: 40°C Relative Humidity: 90~95% Test Duration Time: 72 hours
Thermal Shock Test	Temperature Cycle: -30 to $+70^{\circ}\text{C}$ Cycle Time: 2 hours Test Repetition: 10 cycles (20 hours total)
Lifetime test	Voltage: 3.0 Vdc Test Mode: 1 min On, 1 min Off, as 1 cycle Total Cycles: 5,000
Drop Test	Drop Condition: 1.5m onto iron plate at weight 75g Test Repetition: 2 times per side (36 total)
Vibration Test	Frequency: 10 ~ 55Hz, Amplitude 1.5mm Direction: X, Y, Z; 2 hours each

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
20 trays/carton
Qty/carton: 1000

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

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