



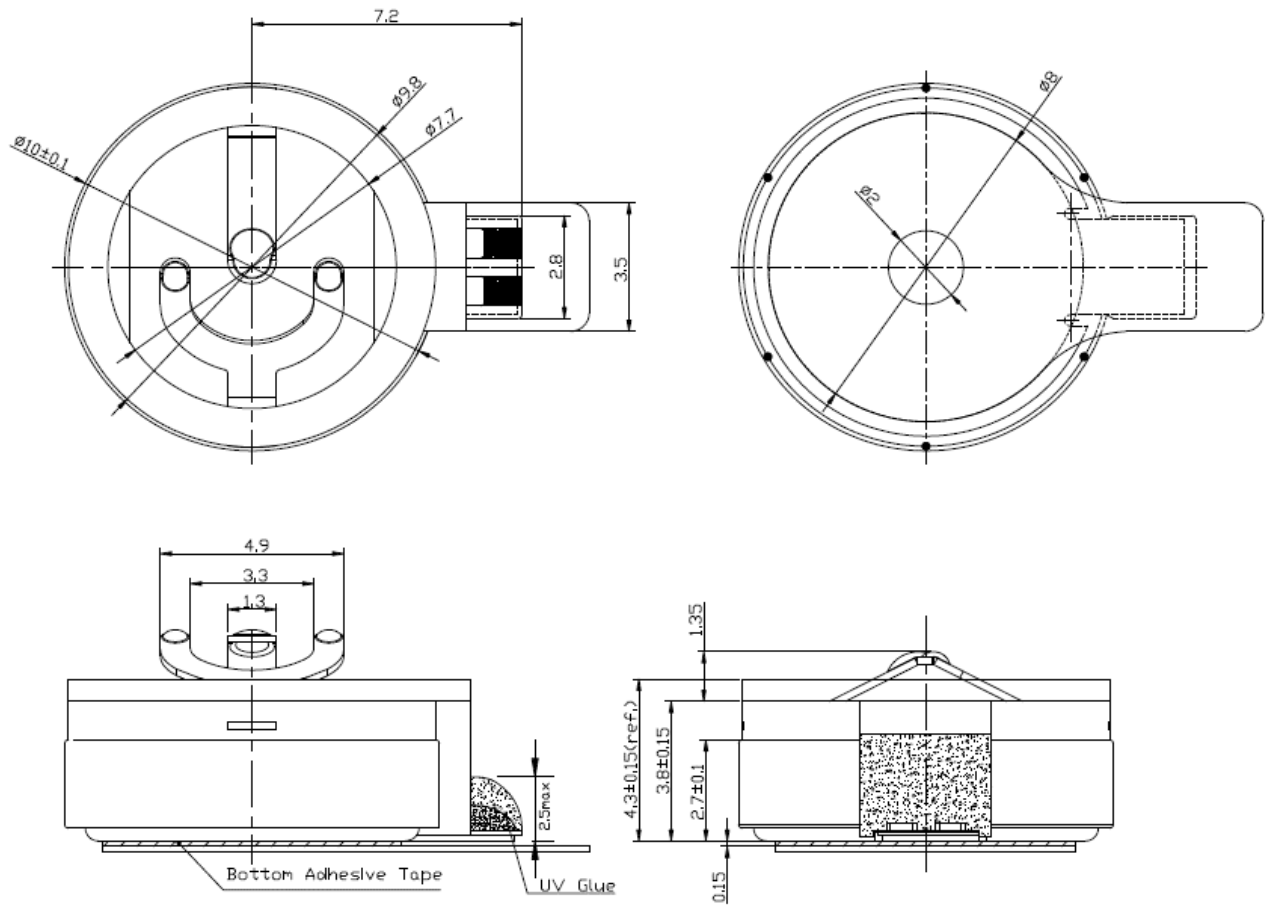
Data Sheet	HD-EMC1004-SC
------------	---------------

- Features:**
- 80mA rated current
 - 9,000 rpm rated speed
 - Coin style housing and spring contacts for easy implementation.

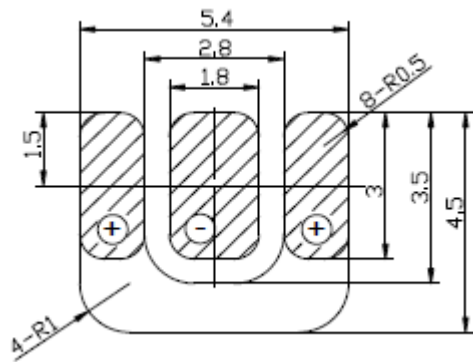
Specifications

Parameters	Values	Units
Input Voltage	3.0	V _{DC}
Operating Voltage Range (DC)	2.4 ~ 3.6	V _{DC}
Starting Voltage	2.3	V _{DC}
Direction of Rotation	CW	-
Rated Speed <small>Rated Voltage, Rated Load, Motor Fixed</small>	9,000 ± 3,000	RPM
Rated Load Current <small>Maximum at 3.0 V_{DC}, Rated Load, Motor Fixed</small>	80	mA
Starting Current <small>Maximum at 2.4 V_{DC}, Rotor Locked</small>	100	mA
Mechanical Noise	≤ 50	dB
Weight	1.0 ± 0.3	Grams
Storage Temperature	-30 ~ +70	°C
Operating Temperature	-20 ~ +60	°C
Environmental Compliances	RoHS/REACH	-

Dimensions

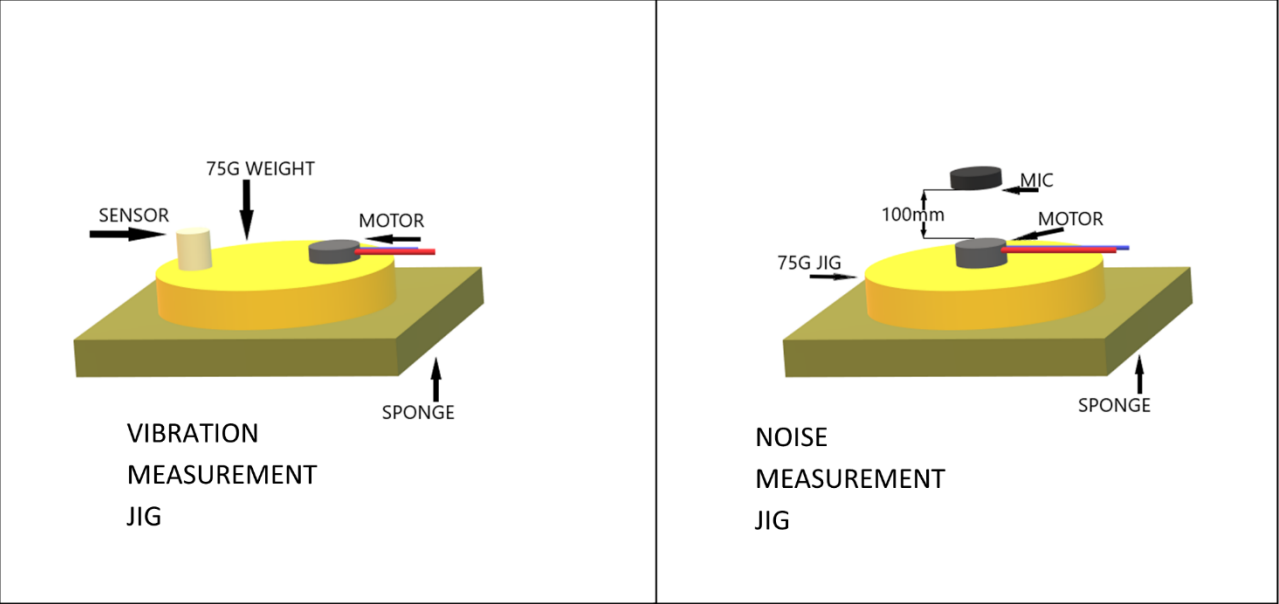


Suggested Electric Contact Area*



*This electric contact area is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

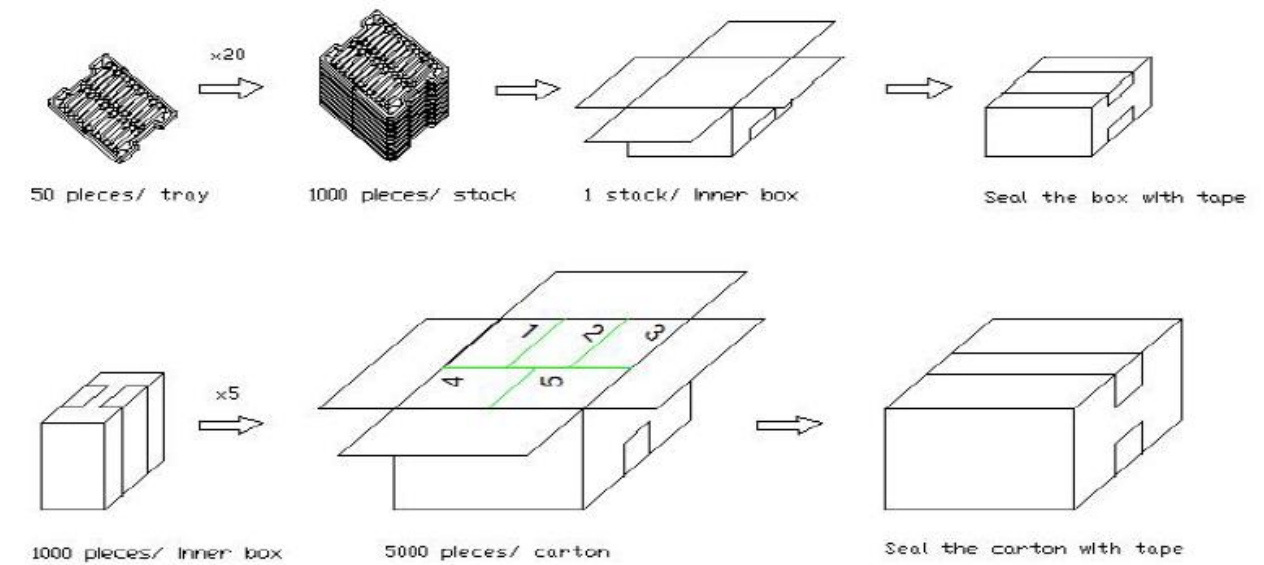
Measurement Methods (Standard Jig)



Reliability Testing

Type of Test	Test Specifications	Judgement
Life Test	At rated voltage (3V): Cycle: 2s on, 2s off continuous Cycle Count: 50,000	Allow device to rest 4 hours after each test. The following specifications must be met: 1. Rotating speed (initial ± 30%) 2. Rated Load Current (initial ± 30%) 3. Starting Voltage (2.5V Max)
High Temperature Test	Temperature: +70°C Test Duration Time: 72 hours	
Low Temperature Test	Temperature: -30±2°C Test Duration Time: 72 hours	
Humidity Test	Temperature: +40°C Relative Humidity: 95% Test Duration Time: 72 hours	
Thermal Shock Test	Temperature Cycle: -20 to +70°C Cycle Time: 4 hours Test Repetition: 10 cycles (40 hours total)	
Drop Test	Drop Condition: 1.5m onto iron plate at weight 100g Test Repetition: 3 times per side (6 total)	

Packaging



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 $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.ssw
 - 2. Specifications subject to change or withdrawal without notice.