# PUlaudio



#### Data Sheet

HD-EMC1004-SC

#### Features:

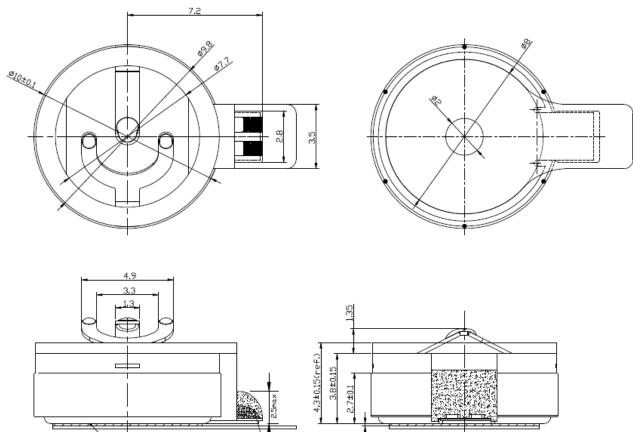
- 80mA rated current
- 9,000 rpm rated speed
- Coin style housing and spring contacts for easy implementation.

# Speci<u>fications</u>

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

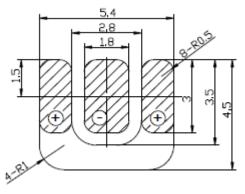
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### Dimensions



Suggested Electric Contact Area\*

Bottom Adhesive Tape



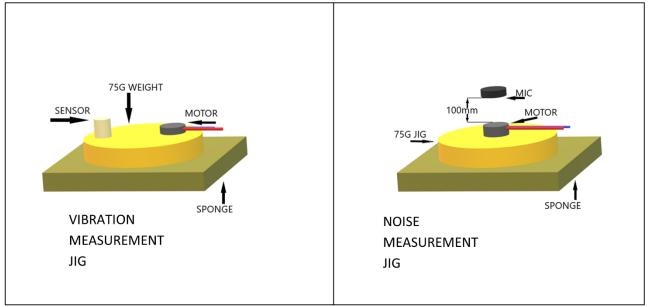
UV Glue

0.15

\*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.

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# Measurement Methods (Standard Jig)



# **Reliability Testing**

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

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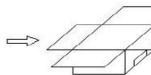
# Packaging



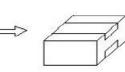
50 pleces/ tray



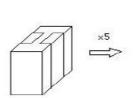
1000 pieces/ stack

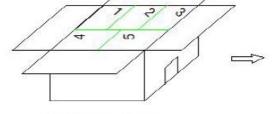


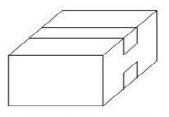
1 stack/ Inner box



Seal the box with tape







1000 pleces/ Inner box

5000 pleces/ carton

Seal the carton with tape

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

Note:

- 1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5$ mm and angles are  $\pm 3^{\circ}$ .ssw
- 2. Specifications subject to change or withdrawal without notice.