

Data Sheet HD-EMC0503-LW27

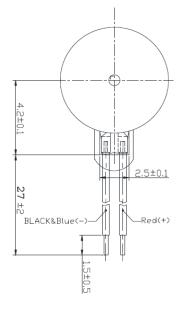
Features:

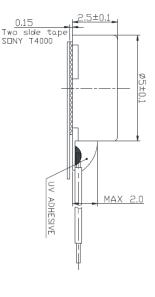
- 85mA rated current
- 10,000 rpm rated speed
- Coin style housing and solder pad contacts for easy implementation.
- Brushless motor

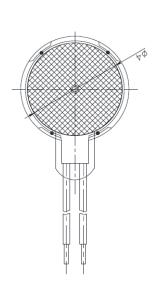
Specifications

Parameters	Values	Units
Input Voltage	3.0	$V_{ extsf{DC}}$
Operating Voltage Range (DC)	2.7 ~ 3.3	$V_{ extsf{DC}}$
Starting Voltage	2.5	$V_{ extsf{DC}}$
Direction of Rotation	CW	-
Rated Speed Rated Voltage, Rated Load, Motor Fixed	10,000 ± 3,000	RPM
Rated Load Current Maximum at 3.3 V _{DC} , Rated Load, Motor Fixed	85	mA
Starting Current Maximum at 2.7 V _{DC} , Rotor Locked	170	mA
Mechanical Noise	≤ 50	dB
Weight		Grams
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +70	°C
Environmental Compliances	RoHS/REACH	-

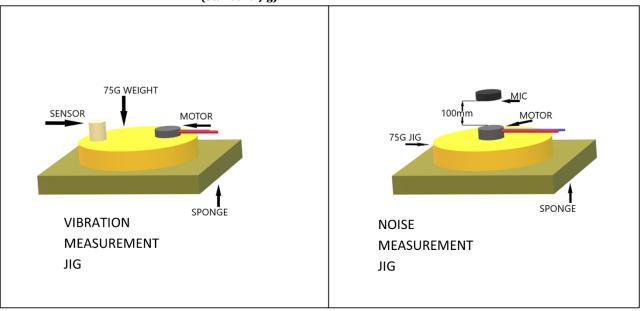
Dimensions







Measurement Methods (Standard Jig)

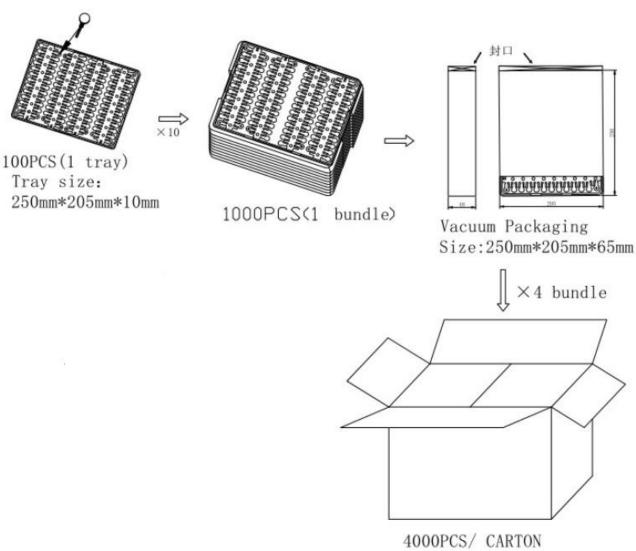


Reliability Testing

Type of Test	Test Specifications	Judgement		
	At rated voltage (3V):			
	Cycle: 2s on, 1s continuous			
Life Test	Cycle Count: 500,000			
	Temperature: +80°C			
High Temperature Test	Test Duration Time: 96 hours			
	Temperature: -40±2°C			
Low Temperature Test	Test Duration Time: 96 hours			
	Temperature: +40°C	Allow device to rest 4 hours		
	Relative Humidity: 90~95%	after each test. The following		
Humidity Test	Test Duration Time: 96 hours	specifications must be met:		
	Temperature Cycle: -40 to +85°C	1. Rotating speed		
	Cycle Time: 2 hours	(initial ± 30%)		
	Test Repetition: 50 cycles (100 hours	2. Rated Load Current		
Thermal Shock Test	total)	(initial ± 30%) 3. Starting Voltage		
	Vibration: $10 \sim 55$ Hz,			
	2.2G acceleration	(2.5V Max)		
Vibration Test	Test Axis: XYZ			
	Test Repetition: 10 minutes per axis			
	(30 minutes total)			
	Drop Condition: 1.5m onto iron plate			
Drop Test	at weight 100g			
2.07.000	Test Repetition: 1 time per side (6			
	total)			

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Packaging



Specifications Revisions

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Revision	Description	Date	Approved		
Α	RELEASED FROM ENGINEERING	12/13/2024	JD		

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ±0.5mm and angles are ±3°.ssw
- 2. Specifications subject to change or withdrawal without notice.