

产品规格书

PRODUCT SPECIFICATION

客户名称Buyer Name	
客户料号Buyer Part No.	
客户承认签章 Buyers Approval & Signatures	

文件编号Spec No.	S-324456	版本	A/0	
品名描述 Product Description	无刷直流振动马达 BLDC Vibration Motor			
型号Part No.	W0625SS001D			
送样日期Date				
设计Designed by	审核Checked by 批准Approved by			
陳満	fr. wif	Jum		
2018.07.17	2018.07.17	2018.07.17		

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Specification 0	Φ6 x 2.5T Name of applied	WOCOECOOAD	Enactment	2018.07.17	
Specification	Ψ6 Χ Ζ.51	Model	W0625SS001D	Revision	

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1. REVISION HISTORY

REV No.	Date	Description	Inspector	Designed	Approved

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Specification	Φ6 x 2.5T	Name of applied	W0625SS001D	Enactment	2018.07.17
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2. Scope

This specification applies to W0625SS001D brushless (BLDC) coin vibration motor used for mobile devices, manufactured by Jinlong Machinery & Electronics

3. Contents

No.	ltem	Specification
3-1	Operating Voltage Range	DC 2.7V ~ 3.3V
3-2	Storage Temperature Range	(-)40 ~ (+)85℃ There should be no condensation
3-3	Operating Temperature Range	(-)20 ~ (+)60℃ There should be no condensation
3-4	Operating Position	All Direction

4. Standard Test Condition

No.	ltem	Specification
4-1	Temperature	20±3℃
4-2	Humidity	65% ± 20% RH
4-3	측정전압 Measurement Voltage	DC3.0V
4-4	Acceleration sensor Motor Assurement jig	Condensor + Motor 2 #F IX L Switch Oscilloscope Current Probe Amp.
	Standard Measurement State	Inspection Circuit Diagram
	Jig: 50x46x45mm [Material iWeight: 150gThe vibrator is Clamped firmly	s POM] (0.5~1Kg pressure) on a test fixture

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5. Judgment Environmental Condition

NO	ltem	Condition
5–1	Temperature	20±3℃
5–2	Humidity	65% ± 20%RH

6. Test Tolerance

Test set-ups and equipment shall be capable of maintaining following condition, unless otherwise specified.

NO	ltem	Condition
6-1	Room Temperature & Humidity	20±15°C/65±20%RH
6-2	Test Chamber Temperature	Limits ±3℃
6-3	Voltage	Limits ±0.15V

7. Electrical Characteristics

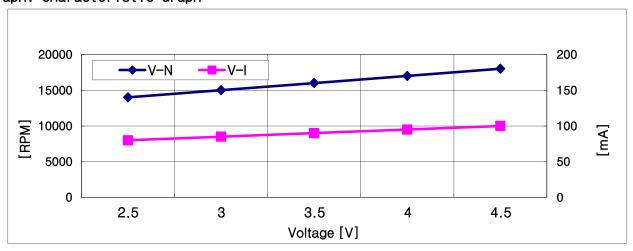
No	ltem	Test Condition	Condition
7-1	Rated Voltage	•	DC 3.0V
7–2	Rotating Direction	CW [Lead Wire Red to (+), Black or Blue to (-)	CW
7–3	Rated Load Speed		15,000 ± 3,000 rpm
7-4 Rated Load Current measu		It is based on the standard measurement condition of the section 4.	90 mA max
7–5	Starting Current		175 mA max
7-6	Starting Voltage	Motor On/Off test based on the standard measurement condition of the section 4-1, 4-2, and 4-4.	DC 2.5 V max
7–8	Insulation Voltage	Measured between terminal and case with DC 100V Megger.	10 MQ min

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8. Mechanical Characteristics

NO	ltem	Specification	Condition
8-1	Vibrat ion Force	- 50x46x45mm [Material is POM] - Weight: 150g -The vibrator is Clamped firmly (0.5~1Kg pressure) on a test fixture, Acceleration sensor Motor Acceleration sensor Rotating measurement jig	It is referred to the rated load speed of the section 7-3
8-2	Mechan ical Noise	- Motor shall be fixed on Jig by adhesive tape - SUS-304 - Jig Material Micro phone Steel Jig(Sponge	50dB 50dB MAX * 24dB
8–3	Weight		약 0.90g about 0.90g

9. Graph. Characteristic Graph



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10. Reliability Test

NO	Item	Test Condition			Specification
10-1	Room Temperature	Item			-Rated Load Speed: Initial value +40,
	&Humidity Life Test		Room Temp. & Humi. L/T	High Temp. & Humi. L/T	
10.0	lliab	Voltage	DC 3.0V	DC 3.0V	-20%
10-2	High Temperature & Humidity Life	Temperatu re	20±15℃	40℃	Or within rated load speed
	Test	Humidity	65±20% RH	90% RH	
		Life cycles	1,000,000 cycles	300,000 cycles	-Rated Load Current: Initial
		Duty Cycle	0.5 sec ON / 0.5 sec OFF	0.5 sec ON / 0.5 sec OFF Motor shall be fixed on Jig by adhesive tape. (Refer to the section 4-4)	value±30%
10-3	Composite Test		continuous ru g Then storage	(Rated Load Speed: Initial value±20%, or within rated load speed)	
10-4	Low Temperature Storage Performance		-40℃ for 500 for 4 hours.	hours and then room	(Rated Load Current: Initial value ±30%)
10-5	High Temperature Storage Performance		+85℃, 60%RH emperature foi		
10-6	High Temperature and Humidity Storage Performance		+60℃, 90%RH emperature foi	for 500 hours and r 4 hours.	

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10. Reliability Test

NO	ltem	Test Condition	Specification
10-7	Thermal Shock Test	Total 200cycles at -40°C and +85°C for 30min each (1cycle=1 H) - Temperature Change Time < 5min Motor shall be measured after exposure at room temperature for 4 hours.	(Rated Load Speed: Initial value±20%, or
10-8	Drop Test	Dummy set (about 100g) motor shall be dropped Onto concrete plate. 3times each side of 6 directions from a height of 150 cm, total 18 times.	within rated load speed) (Rated Load Current: Initial value ±30%)
10-9	Vibration Test	Standard-packed motor is subjected to sine wave 10Hz~55Hz. X, Y, Z directions for 2 hours each, total 6 hours.	

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11. Caution

NO	ltem	Specification
13-1	Operating Range	-When using on the operating condition different from a standard, a problem can be generated to the performance and the life of a product.
13–2	Storage	- Avoid from placing motor for long term of six months under environmental condition of high temperature or extreme humidity, or motor may be deteriorated.
13–3	Motor Handling	To handle the motor, hold the case softly. . Do not bring a magnetized object or attracted object by the magnet of motor, or such object may deteriorate a performance of motor. Input short to the motor due to mis-operating, Drive IC of the motor inside can be damaged. To avoid this problem, please add capacitor of 2uF or more between the power lines in parallel with the motor. . Supplying voltage more than DC 4.5V can damage the driver IC

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12. Specification Change

Even when there is any change to this specification, change application report which has the information of details

- of the change, lot of product, and etc shall be presented to customer before that change being carried out.
- And mutual discussion may be necessary before the change being carried out.
 Revision history shall be recorded on to the specification sheet when the change record and approval may be required.

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