

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-325889 版本		A/0	
品名描述 Product Description	BLDC Coin Vibration Motor			
型号Part No.	W0625AB001G			
送样日期Date				
设计 Designed by	审核Checked by 批准Approved by			
陳满	fr. 20 top	/	Imm	
2019.2.19	2019.2.19	2019.2.19		

Jinlong Machinery & Electronics www.jinlong-machinery.com sales@jinlong-machinery.com

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Part Number		Company		Approval No.	S-325889
Specification	Φ6 x 2.5T Name of applied Model	Name of applied	W0625A B004C	Enactment	2019.2.19
		W0625AB001G	Revision		

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EVISION H					
REV No.	Date	Description	Inspector	Designed	Approved

Part Number		Company		Approval No.	S-325889
Specification	Ф6 x 2.5Т	Name of applied	W0625AB001G	Enactment	2019.2.19
Specification	Ψ0 X 2.51	Model	W0025AB001G	Revision	

2. Scope

This specification is applies to W0625AB001G vibration motors to be used for mobile telephone or IT devices.

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	Sp	ecification	
4-1	Temperature		20±3℃	
4-2	Humidity	6	5%±20% RH	
4–3	Measurement Voltage		DC3.0V	
4-4	Acceleration sensor Motor Rotating measurement jig		Switch	btor
	Standard Measurement State	In	spection Circuit Diagra	am
	- Jig : 50x46x45mm [Material i - Weight: 150g - The vibrator is Clamped firmly		n 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℃/65±20%RH
6-2	Test Chamber Temperature	Limits ±3℃
6–3	Voltage	Limits ±0.15V

7.Electrical Characteristics

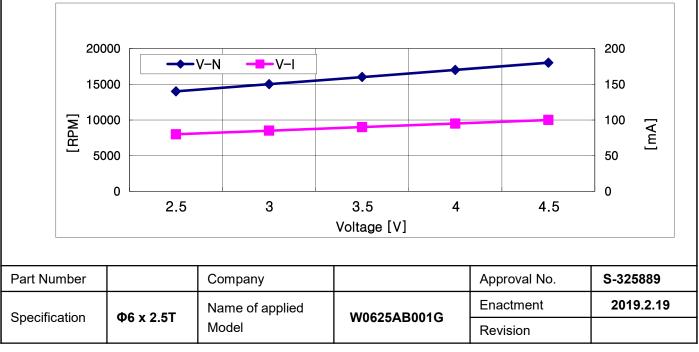
No	ltem	Test Condition	Condition
7-1	Rated Voltage		DC 3.0V
7-2	Rotating Direction	CW [Lead Wire Red(+), Black or Blue(-) CW [Lead Wire Red to (+), Black or Blue to (-)	CW
7–3	Rated Load Speed	It is based on the standard	15,000 ± 3,000 rpm
7-4	Rated Load Current	measurement condition of the section 4.	90 mA max
7-5	Starting Current		175 ^{mA} max
7–6	Starting Voltage	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 DC100V Megger.	10 MΩ 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 - 50mm - 45mm - Rotating measurement jig 	lt 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 - Jig Material Motor Sponge Sponge	50dB MAX * 24dB
8–3	Weight		about 0.90g

9. Graph. Characteristic Graph



10. Reliability Test

NO	ltem		Specification				
10-1	Room Temperature	ltem	-Rated Load Speed: Initial value +40,				
	&Humidity Life Test		Room Temp. & Humi. L/T	High Temp. & Humi. L/T			
10 0	High	Voltage	DC 3.0V	DC 3.0V	-20% Or within rated load speed		
10-2	High Temperature & Humidity Life	Temperatu re	20±15℃	40°C			
	Test	Humidity	$65\pm20\%$ 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		.Conduct the continuous running for 10 hours as following Then storage at 60℃ 90% for 500hours				
10-4	Low Temperature Storage Performance		Exposed to -40℃ for 500 hours and then room temperature for 4 hours.				
10–5	High Temperature Storage Performance	-Exposed to then room t	rated load speed) (Rated Load Current: Initial value ±30%)				
10–6	험High Temperature and Humidity Storage Performance	-Exposed to then room t					

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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.	
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.	(Rated Load Speed: Initial value±20%, or 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

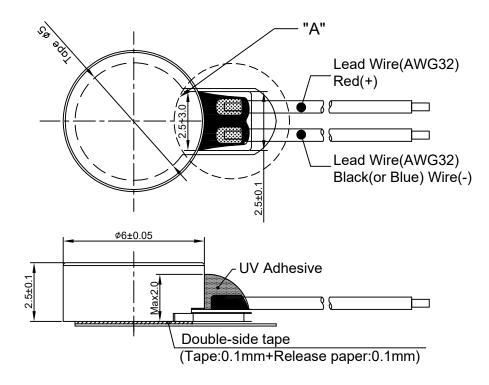
NO	ltem		Specificati	on				
13-1	Operating Range	standard, a pro	-When using on the operating condition different from a standard, a problem can be generated to the performance and the life of a product.					
13-2	term of six months perature or extreme ted.							
13–3	Motor Handling	Do not bring magnet of motor performance of Input short to the motor insic please add capa in parallel wit	the motor due to mis le can be damaged. To ccitor of 2uF or more	or attracted object deteriorate a -operating, Drive I avoid this probler between the power	C of n,			
	1							
rt Number		Company		Approval No.	S-32588			
ecification	U6 X 2.51	Name of applied Model	W0625AB001G	Enactment Revision	2019.2			

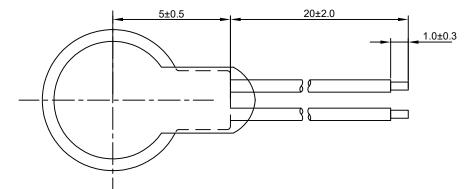
12. Specification Change

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

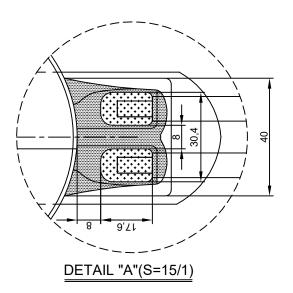
- of the change, lot of product, and etc shall be presented to customer before that change being carried out.
- And mutual discussion may be necessary before the change being carried out. Revision history shall be recorded on to the specification sheet when the change record and approval may be required.

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REV	NO.	CONTENTS	ENGINEER	APPROVER	DATE(yy/mm/dd)		
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						A	
UNLESS OTHERWISE SPECIFIED							



SPECIFICATION

1. RATED VOLTAGE	: DC 3.0V
2. RATED CURRENT	: 90 mA Max
3. SPEED :	15,000±3,000 RPM
4. STARTING VOLTAG	GE : DC 2.5V Max
5. DIRECTION OF RO	TATION : CW

	3		LEAD WIRE		AWG32			1		
	2		RUBBER		SILICON			1		
E	1	_	Vibrator					1		
	NO. PART NO. PART NAME		MATERIAL		QTY	FINISH	REMARK			
	GEN	DTHERWISE SPECIFIED, DIME ERAL TOLERANCE(±)	NSIONS ARE IN MILIMETERS, AND TOLERANCE ARE AS FOLLOWS :	UNIT	SIZE A4	SCALE	0/1	sheet 1/1	MODEL	
	\square							(YY/MM/DD) 9.2.19	part name VIBRA	TOR
			CHECKED DATE		TE (YY/MM/DD)					
			ANGULAR TOLERANCE : ±1.0°						DRAWING NO.	
	Jinlong Machinery R & D CENTER				DATE	(YY/MM/DD)	<u> W0625AB001G</u>			