

# 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-159981	版本	A/0			
品名描述 Product Description	LRA Coin Type Vibration Motor					
型号Part No.	G1036001D					
送样日期Date						
设计 <b>Designed by</b>	审核 <b>Checked by</b>	ed by 批准Approved b				
陳满	fr. 20 top	1	Imm			
2017.04.20	2017.04.20	2017.04.20				

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

SPECIFICATION	MODEL NAME		2/9							
SPECIFICATION	G1036001D		2017. 04. 20.							
	CONTE	NTS								
1. Scope	1. Scope									
2. Standa	2. Standard Operating Condition									
3. Measu	rement environment co	nditions								
4. Produ	ct Characteristics									
5. Accele	ration Testing Methods									
6. Reliab	ility Test Conditions									
7. Cautio	7. Cautions									
8. Drawir	8. Drawing									

SPECIFICATION	MODEL NAME	3/9
SPECIFICATION	G1036001D	2017. 04. 20.

### 1. Scope

These specification are applied to G1036001D Linear vibrator to be used for cellular and PDA phone, manufactured by JINLONG MACHINERY & ELECTRONICS.

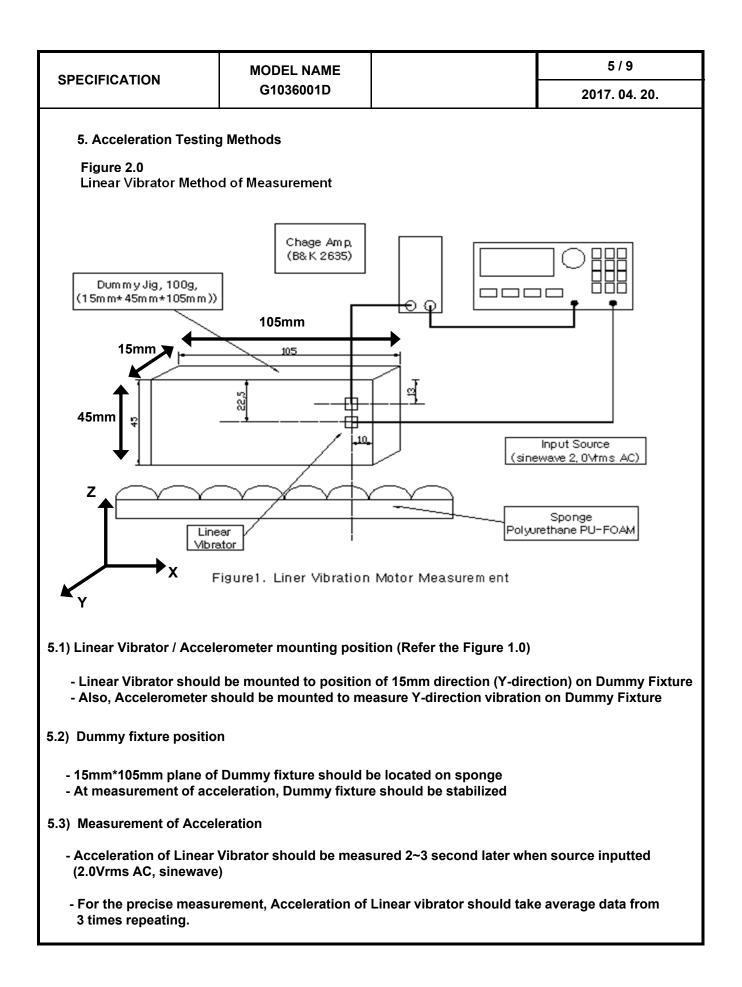
## 2. Standard Operating Condition

NO	ITEM	SPECIFICATION
2-1	Working temperature range	-25°C ~ +70 °C
2-2	Storage temperature range	-40 ℃ ~ +85 ℃

### 3. Measurement Environment Conditions

NO	ITEM	SPECIFICATION
3-1	Temperature	20°C ± 3°C
3-2	Humidity	65%RH ± 20%RH
3-3	Rated voltage	2.0 Vrms AC(Sine wave)
3-4	Operating Voltage Range	0 ~ 2.05 Vrms
3-5	Rated Frequency	175 Hz

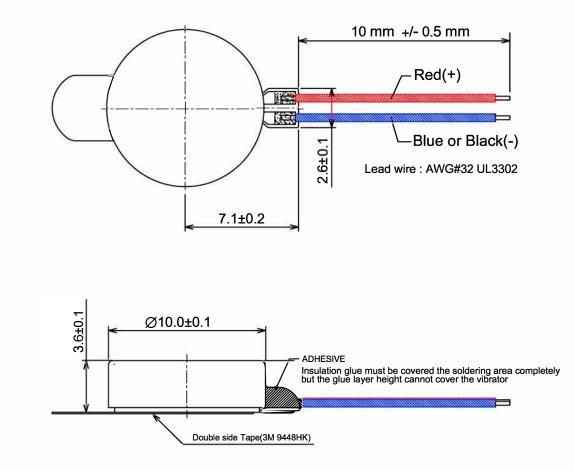
036001D Specification 27 Ohm +, 90 mArms 1.5 +/- 0.3 C Refer to the fre spectrum Refer to outline 2.0 +/- 0.1 c Max 50dE Max 35dE	-/- 5 Standard Test Condition   Max Input source :   2.0Vrms AC, Sinewave, 175HZ   Grms Input source :   2.0Vrms AC, Sinewave, 175Hz   equency   Standard Test Condition   e drawing   Standard Test Condition   gram   Standard Test Condition   BA   10cm distance from microphone, Input Voltage : 2.0Vrms AC, Sinewave
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Refer to the fre spectrum Refer to outline 2.0 +/- 0.1 g Max 50dE	Grms 2.0Vrms AC, Sinewave, 175Hz   equency Standard Test Condition   e drawing Standard Test Condition   gram Standard Test Condition   BA 10cm distance from microphone, Input Voltage : 2.0Vrms AC, Sinewave   Test : LVIT-201H
spectrum Refer to outline 2.0 +/- 0.1 c Max 50dE	Standard Test Condition   e drawing Standard Test Condition   gram Standard Test Condition   BA 10cm distance from microphone, Input Voltage : 2.0Vrms AC, Sinewave   Test : LVIT-201H
2.0 +/- 0.1 g Max 50dE	gram Standard Test Condition BA 10cm distance from microphone, Input Voltage : 2.0Vrms AC, Sinewave
Max 50dE	BA 10cm distance from microphone, Input Voltage : 2.0Vrms AC, Sinewave
	Test I VIT-201H
Max 35dE	Test : LVIT-201H
	(2.0Vrms AC, Sinewave)
Ringing   Max 0.4 Grms   0.2Vrms AC, Sine (Frequency sweep)	
Min 10M C	Ohm 100V DC input, between Case ~ Termir
Max 55m	nS Input source : 2.0Vrms AC, Sinewave, 175HZ
Max 200n	mS Input source : 2.0Vrms AC, Sinewave, 175HZ
Acceleration	n Characteristics
///	-2.0Vrms
///	
	Max 200



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Relia	bility test condition	5			
No	Items	Specification	Judgement		
6-1	High temperature Storage test	+70°C, 168, After test, the Vibrator should be measured after room-temperature storage for 4Hrs.	Acceleration variation : $\pm 30\%$		
		Sample quantity : 4 pcs	Rated current : 90mA Max		
6-2	Low temperature	-30°C, 168, After test, the vibrator should be measured after room-temperature storage for 4hrs.	Acceleration variation : $\pm 30\%$		
	Storage test	Sample quantity : 4 pcs	Rated current :90mA Max		
6-3	High/Low Temperature Humidity cycle storage test	-40°C ~ 80°C / 85% humidity, Total 6cycles Sample quantity : 4 pcs 0ne cycle 80°C,85%RH -40°C -40°C -40°C -40°C	Acceleration variation : ±30% Rated current : 90mA Max		
6-4	Thermal shock Resistance test	-40°C ~ 80°C in each of 30Min(1cycle),Total 50cycles. Transition is 5minutes max. After the test, the vibrator should be measured after room- temperature storage for 4Hrs. Sample quantity : 4pcs	Acceleration variation : ±30% Rated current : 90mA Max		

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. Relial	bility test conditions							
No	Items	Specifi	Judgement					
6-5	Room Temperature life test	Operation at rated Input vol Input Frequency(175Hz) for 1,000,000cycle,On(2sec)/O	Acceleration variation : $\pm 30\%$					
				Rated current : 90mA Max				
6-6	Low Temperature	-20°C, Operation at rated Ir AC,Sinewave), Input Frequ 53,000cycles, 2.5sec On/O	Acceleration variation : $\pm 30\%$					
	Life test	20,000cycles, Continue tes Sample Quantity : 10pcs	Rated current :90mA Max					
6-7	High Temperature	+60°C, 95% humidity, Ope (2.0Vrms AC, Sinewave), Ir 53,000cycles, 2.5sec on/off	Acceleration variation : $\pm 30\%$					
	Humidity life test	20,000cycles, Continue tes Sample Quantity : 4pcs	Rated current : 90mA Max					
6-8	H2S Corrosion	+40±2°C, 80% humidity, C Test Duration time : 24hour	Acceleration variation : $\pm 30\%$					
	Resistance	Sample Quantity : 4pcs	Sample Quantity : 4pcs					
		Non-operating R						
		3 axes, 10 minutes						
		Frequency(Hz)	A.S.D.(G2/Hz)	Acceleration variation : $\pm 30\%$				
6-9	Non operating Random	20	0.0098	20070				
00	Vibration test	80	0.04	Rated current : 90mA Max				
		350	0.04					
		2000	0.0069					
		Sample Quantity : 4pcs						
6-10	Free fall drop test	The Vibration that is attached fixture is dropped to a steel Direction $\pm X$ , $\pm Y$ , $\pm Z$ (Tota	floor from 150cm in height, I 6 faces)	Acceleration variation : $\pm 30\%$				
		Each face 3 times, Sample	Quantity : 4pcs	Rated current : 90mA Max				
6-11	Vibration Grms Force test	Weight : 100±5% g Fixture	Fixture Material : ABS(D=1.17~1.23 g/cm3), Fixture Weight : 100±5% g Fixture Dimension : 44mm length Cubic Sample Quantity : 4pcs					

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. Cautions			
(1) Allowable range for	or use		
Unless it is used in	n accordance with the specificatio	ns, the performance and life may	be considerably
reduced. Due atte	ntion should be paid to voltage ar	nd current ranges for use.	
(2) Storage			
Avoid storing in h	igh temperature, high humidity or	corrosive gas environment.	
(3) Handling of motor	•		
	tor, hold the motor case softly.		
Do not bring a ma	gnetized object near or into conta	ct with the surface because	
there is a fear of p	performance being deteriorated.		
Due attention mus	st be paid to the handling and wor	king environments because	
such objects.			



# **SPECIFICATION**

1. RATED VOLTAGE	: 2.0Vrms AC(Sinewave)
2. RATED CURRENT	: 90mArms Max
3. RATED FREQUENCY	: 175Hz
4. RESISTANCE	: 27 ohm ± 5

REV	NO.	CONTENTS	ENGINEER	APPROVER	DATE(yy/mm/dd)	3		LEAD WIRE		1		
						2		RUBBER		1		
						1		Vibrator		1		
					а С.	NO.	PART NO.	PART NAME	MATERIAL	Q'TY	FINISH	
					GE	S OTHERWISE SPECIFIED, DIME ENERAL TOLERANCE(±)	ENSIONS ARE IN MILIMETERS, AND TOLERANCE ARE AS FOLLOWS :	UNIT SIZE SCALE 5/1	SHEET	G1036	001D	
						m/m 0.2		20	(YY/MM/DD) 17.04.10 (YY/MM/DD)	VIBRAT	OR	
		Jinlong Machinery & Ele www.jinlong-machinery	ctronics .com					ANGULAR TOLERANCE : ±1.0°	APPROVED DATE	E (YY/MM/DD)	drawing no. S-15988'	1