



Customer/顾 客:

REF.No No./参考号: XY-B1030-DX

SPECIFICATION

规 格 书

Item/名称: Coin Vibration motorItem

Model/型号: XY-B1030-DX


Date/日期: 2012-03-09

雄鹰电子有限公司

XIONGYING ELECTRONICS CO.,LTD.

SPECIFICATIONS FOR VIBRATO MOTOR

DATE	REV.	REVISION RECORD	DR.	APPR.

DATE	2008.05.09	<div>XY-B1030-DX</div> <div>Coin vibrator motor</div>						 <div>雄鹰电子</div>	
DESIGNER	YOUNG								
CHECKER	YIN								
APPOVER									
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SPECIFICATIONS FOR VIBRATO MOTOR

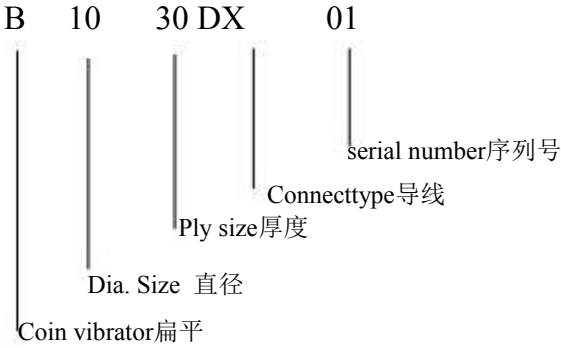
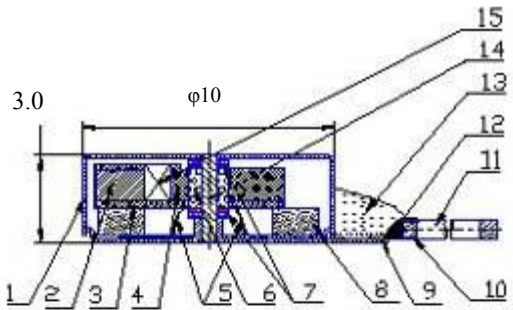



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No.	name	qty
1	crust	1
2	counterweight	1
3	pc b	1
4	plastic	
5	brus h	2
6	axletree	1
7	washer	
8	magnet	1
9	base	1
10	F-PC	1
11	wire	2
12	solderin ting	
13	UV glue	
14	axis	1
15	coil	2

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SPECIFICATIONS FOR VIBRATO MOTOR

1.0 DESCRIPTIO AND APPLICATION

This specification applies to the vibration motor used for mobile phone.

2.0 STANDARD OPERATING CONDITION

(Reliability tests to be in item 4.0)


	ITEMS	SPECIFICATION
2-1	Rated voltage额定电压	3.0V DC
2-2	Operating voltage电压范围	2.5V ~ 3.5V D C
2-3	Rated load负载	内置振子
2-4	Rotating direction旋转方向	CW & CCW 双方向旋转
2-5	Grounding polarity接地极	无要求
2-6	Operating temperature range	-20℃ to +70℃ ordinary humidity (No condensation of moisture)
2-7	Storage temperature range	-40℃ to +85℃ ordinary humidity (No condensation of moisture)

3.0 CHARACTERISTICS

The measurement at 25℃±3℃& 65%RH±20%RH is standard. If the judgment is not questionable, recognize

measurement at 5℃ to 35℃& relative humidity 45%RH to 85%RH.

	ITEMS	TEST CONDITION	SPECIFICATION
3-1	Standard speed转速	额定电压下专用测试仪器检测	13,000±2,500 r/min
3-2	Standard current电流	额定电压下专用测试仪器检测	85mA MAX
3-3	Starting voltage启动	专用测试仪器检测	2.3V MAX
3-4	Insulation resistance	绝缘电阻	10MO MIN
3-5	Armature resistance	电枢极间电阻	80O MAX
3-6	Mechanical noise噪音	噪音测试仪器距马达10CM: 背景噪音≤20 Db Max	A weighting 50 dBA/10cm
3-7	Vibration strength振动量	专用测试夹具	1G MIN

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SPECIFICATIONS FOR VIBRATO MOTOR

4.0 RELIABILITY AND SPECIAL TEST

No	Item	Condition
4-1	Low temperature storage	-40℃, 168 hours After the test, the motor should be measured after room-temperature storage for 4 hours.
4-2	High temperature storage	+85℃, 168 hours After the test, the motor should be measured after room-temperature storage for 4 hours.
4-3	Static humidity	+50℃, 95%RH 120 hours After the test, the motor should be measured after room-temperature storage for 4 hours.
4-4	Temperature cycle	-40℃~+8℃ in each of 2 hours (1 cycle) Total 15 cycles 20 second max. transition time between Temp. extremes After the test, the motor should be measured after room-temperature storage for 4 hours.
4-5	Vibration	The motor that is attached to a 100 gram plastic housing is measure with 2.2G, 10~55Hz/mi for 10 minutes in each of X, Y, Z axis.n
4-6	Mechanical shock	The motor that is attached to a 100 gram plastic housing is dropped to concrete floor from 1.5 meters in height. Drop once in each of the six perpendicular planes.
4-7	Life test	1sec on, 2sec off 1 cycle at 3VDC Total 124,000 cycles at 25, 65%RH

Judgment


After test 4-1~4-6, following specifications must be satisfied.

- Starting load voltage: MAX. 2.3V -. Rated revolution: Initial value $\pm 20\%$

After test 4-7, following specifications must be satisfied.

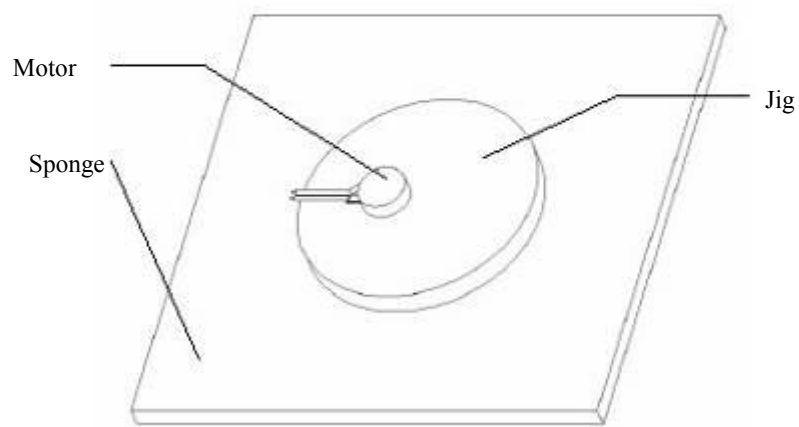
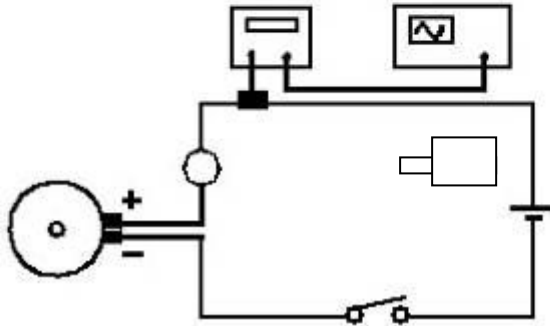
- Starting load voltage: MAX. 2.3V -. Rated revolution: Initial value $+50\% \sim -30\%$

There should be no abnormalities in appearance and structure.

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5.0 STANDARD TEST CONDITION




Jig

- Dimension: Ø50x5.5mm

- Weight 85g:

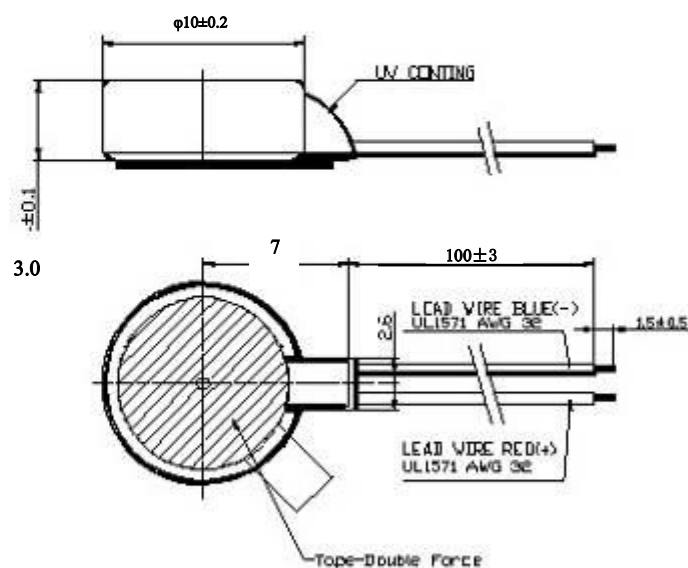
- Material: steel

Motor is attached to test jig with double side tape.

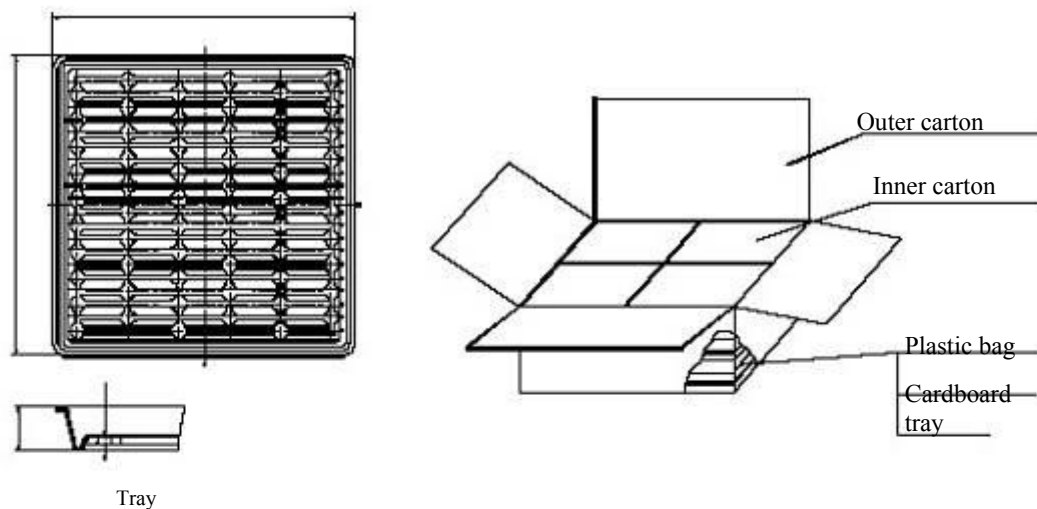
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6.0 MECHANICAL DRAWING



7.0 PACKING REQUIREMENTS



100PCS/tray, 20PCS trays/plastic bag, 80PCS trays/carton
i.e. 8000PCS/carton

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