产品规格书

PRODUCT SPECIFICATION

客户名称	(Cu	stomer)			
项目名称	(Pr	oject)			
产品名称	(Na	ame)		10B27. 3018	振动马达
编号	(N	umber)		10061	4
拟	制	校对(CH	ECK)	批准(APPROVE)	时间 (DATE)
(DRAWN)					
					2011.10.10

客户确认/Customer Approved		
签章/Signed		
日期/Date		

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

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版本	更改原因	拟制	审核	日期
0	RELEASE FOR PRODUCTION/产品颁布			2011.10.10

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

Content (目 录)

- 1)Construction Form (结构形式)
- 2)Standard Operating Condition (标准运行条件)
- 3)Electrical Characteristics (电性能)
- 4)Mechanical Specification (机械要求)
- 5)Reliability Test (可靠性试验)
- 6)Performance and Characteristics (性能与特性)
- 7)Caution (注意事项)
- 8)Packaging (包装)
- 9)MECHANICAL DRAWING/机械图

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

1. Construction Form (结构形式)

No. 序号	ITEM 项目	Contents 内容
1-1	Motor Construction	Ф10-Flat Coreless Vibration Motor
	电机结构	直径为 10mm 的扁平型无芯振动马达
1-2	Coil Construction	Flat Coreless Coil
	线圈结构	扁平型无芯线圈
1-3	Rectifying Method	Precious Brush and Commutator
	换向方式	贵金属电刷与换向器的换向

2. Standard Operating Condition (标准运行条件)

No. 序号	ITEM 项目	Contents 内容
2-1	Rated Voltage	DC 3.0V
	额定电压	
2-2	Rated Load	Vibration Weight
	额定负荷	偏心锤 (内置)
2-3	Rotation Direction	CCW or CW
	旋转方向	逆时针或顺时针方向
2-4	Motor Position	Any Position Available

TITLE: MOTOR VIBRATOR, 10 Diam×2.7Housing Length

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

	电机安装位置	任何位置都可以	
2-5	Voltage Range for Use	DC 2.5~3.8V	
	工作电压范围		
2-6	Allowable Temperature Range	Working Temperature: -308C ~ +708C	
	允许温度范围	工作温度: -308C ~ +708C	
2-7	Storage Environment	-408C ~ +808C	
	保存温度范围		

3. Electrical Characteristics (电性能)

No.	Item	Measuring Condition	Specification
序	项目	测试条件	规格
号			
3-1	Rated Speed	At Rated Voltage and Rated Load	11000 ± 3,000rpm
	额定转速	额定电压及负荷下测试	
3-2	Rated Current	At Rated Voltage and Rated Load	75mA or less
	额定电流	额定电压及负荷下测试	75 mA max
3-3	Starting Voltage	At Rated Load and Step Voltage	DC2.3V or less
	起动电压	额定负载及逐渐升高电压法测试	DC2.3V 以下
3-4	Insulation Resistance	DC100V between Lead wire and Case	10MΩ Min
	绝缘电阻	引线与电机机身之间的绝缘电阻	
3-5	Insulation Voltage	DC50V between Lead wire and Motor	No Destruction Occurs

TITLE: MOTOR VIBRATOR, 10 Diam×2.7Housing Length

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

	绝缘电压	Case	不被击穿
		 引线与电机机身之间施加 DC50V 电压一分钟	
3-6	Terminal Resistance	Measure between Terminals	1phase: 28±15%
	端子电阻	端子间电阻	2phase: 56±15%
3-7	Starting Current	At rated load and step voltage 额定负载及电压直投法条件下测试	120mA or less
	起动电流		120mA 以下

Add: Measuring Condition (测试条件)

1.Measuring Temperature: 25℃±2℃ 测试温度: 25℃±2℃

2.Measuring Relative Humidity: 45-75%RH 测试相对湿度: 45-75%RH

4. Mechanical Specification (机械要求)

No	Item 项目	Measuring Condition 测试条件	Specification 规格
4-1	Configuration	Vernier-Calipers	As Specified in Outline Drawing. 参考相关外形尺寸图。
	外观尺寸	游标卡尺	
4-2	Appearance 外观	Visual Examination 目测	Should be no Evidence of Mechanical Damage,Crack,Rust and Stain. 不得有明显的机械划痕,裂缝,锈迹,污点。
	Weight 重量	Balance 天平	1.2g Approx 约1.2g
4-3			
		100 mm	
	Mechanical Noise	V V	50dB(A) Max (在 Motor 表面 100mm 处,3.0V)
	机械噪音	100g Steel	将电机固定,使其保待不动。

TITLE: MOTOR VIBRATOR, 10 Dia

Page 6 of 9

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

4-4		At Rated Voltage and Rated Load back ground Noise:28dB 额定电压及负荷下测试背景噪音	
4-5	Vibration Test 振动量测定	_{申机} 75g 铁块 海棉 模型块:75g 测定装置:VM-83	1.0G(AVG) (Vm=DC 3.0V)
4-6	Down-lead's loose Strength 引线抗拉强度		9.8N or More 9.8N 以上

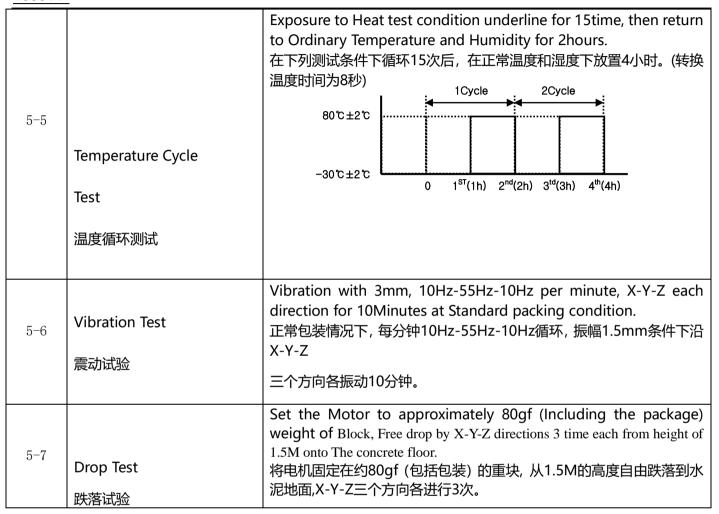
5. Reliability Test (可靠性试验)

5. Kella	5. Reliability Test (可靠性试验)			
No.	ITEM	Contents		
序号	项目	内容		
5-1	Life Test 寿命测试	1)Voltage: DC3.0V 测试电压: DC3.0V 2)Load: Vibrator 负荷:偏心锤 3)Temperature: 20℃±2℃ 温度: 20℃±2℃ 4)Relative Humidity: 60-70%RH 相对湿度: 60-70%RH Test Mode: Turn On the Motor for1sec and than stop for 2sec, 50,000 Cycle. 测试方式: 开 1 秒, 停 2 秒, 运行 50,000 次。		
5-2	High Temperature Exposure 高温放置	Exposure to 70℃±2℃ for 72hours, then return to Ordinary Temperature and Humidity for 2hours. 在温度 70℃±2℃条件下放置 72 小时后,在正常温度和湿度下放置 2小时。		
5-3	Low Temperature Exposure 低温放置	Exposure to -30 °C for 72hours, then return to Ordinary Temperature and Humidity for 2hours. 在温度-30℃条件下放置 72 小时后,在正常温度和湿度下放置 2 小时。		
5-4	Humidity Test 湿度测试	Exposure to 40°C±2°C,90-95%RH(Relative Humidity) for 72hours, then return to Ordinary Temperature and Humidity for 2hours. 在温度40°C±2°C,90%RH(相对湿度)条件下放置72小时后,在正常温度和 湿度下放置2小时。		

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614



6. Performance and Characteristics (性能与特性)

Should be satisfied with the requirements of table1 after Reliability test 5-1-5-7.

通过以上可靠性试验 5-1-5-7 以后应满足表 1 的要求。

表 1・ 评估表

No. 序号	ITEM 项目	Contents 内容
6-1	Rated Current	Initial Data: ±30% Max
	natea carrent	最大不超过初始值的±30%
	额定电流	

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

6-2	Rated Speed	Initial Data: ±30% Max
	\$F	最大不超过初始值的±30%
	额定转速	
6-3	Life Test	Initial Data: ±50% Max
		最大不超过初始值的±50%
	寿命测试	
6-4	Starting Voltage	DC 2.3V Max
	起动电压	最大不超过 DC2.3V
		1)Should not fail in starting
6-5		应正常启动 2)Shavid ant have seed as about a size
	Others	2)Should not be unusual mechanical noise
		无异常噪音
	其它	

7. Cautions (注意事项)

1)Allowable Range for Use 工作范围

Pay attention to Voltage and Current ranges for use, and Use the vibration motor in the Condition accordance with this specifications, or else the life and performance should be considerably reduced.

注意电压及电流的使用范围,并且要按本规格书的要求使用电机,否则电机的使用寿命和性能将发生显著的下降。

2)Storage 储存

Standard Storage Temperature: -5-30°C

Standard Storage Relative Humidity: ≤75%

Avoids Storing in high temperature, High humidity or corrosive Gas Environment.

标准储存温度: -5-30℃

标准储存相对湿度: ≤75%

避免放置在温度,潮湿及有腐蚀性气体的环境中。

3)Handling of Motor 电机使用

Do not press the product with more than 0.5Kgf or drop it, It can cause the

TITLE: MOTOR VIBRATOR, 10 Diam×2.7Housing Length

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

transformation of performance or external appearance.

不许在电机上面施加0.5Kgf以上的压力或使其跌落,这样可能会影响其性能或使外观发生变形。

Do not drop into fluid. (such as Water, Alcohol, etc.)

要防止与液体接触。(水,酒精,等)

Do not expose this product to high temperature for extended periods of time, It may cause a decline in performance.

长时间放置在高温环境时有可能影响其电机的性能。

Please refrain from operating the Motors near Magnetic devices.

要避免放置在磁性物体附近。

The motor may cause slight electronic noise due to the contact between brush and Commutator.

由于电刷与整流子的接触电机有可能发生微弱的电子噪音。

8. Packing (包装)

- 1) Pack 4,000pcs standards in Outer box. (350L×260W×230H) 外包装箱包装 4,000 只标准品。(箱体规格为 350 长×260 宽×230 高)
- 2) The Inner box is 50pcs standards, One circle is 1,000pcs standards of 20 inner boxes, A outer box is 4 point circles 4,000pcs standard.

每个内包装盒包装50只产品,一捆为20盒1,000只标准品,一箱为4匝4,000只标准品。

- 3) Every Outer box attaches a Parking list, Certificate of quality. 每个外包装箱内装入一张装箱单及合格证。
- 4) Name of an Article of sign, Type, Quantity, Weight, Factory Name outside the Box. 箱外侧标识品名,型号,数量,重量,厂名。

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

9 MECHANICAL DRAWING/机械图

9-1 Material Lead/导线材质: UL AWM 1571 AWG32

ISSUE: 0

MODEL:10B27.3018 NUMBER:

100614

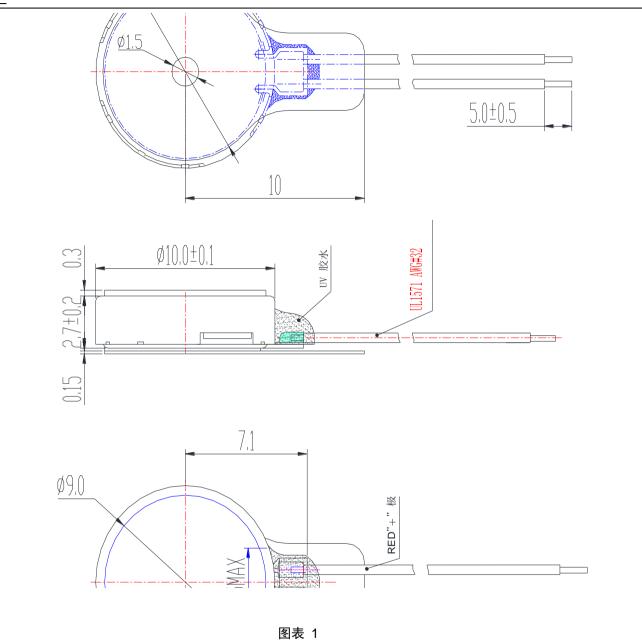


Figure 1 Motor Housing Configuration

图 1 电机外形结构图