

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.		版本	A/0
品名描述 Product Description	扁平振动马达 Coin type vibration motor		
型号Part No.	C1034B018F		
送样日期Date			
设计Designed by	审核Checked by	批准Approved by	
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2007.10.30	2007.10.30	2007.10.30	

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1. 适用范围/General Scope of Application

本说明书适用于扁平式永磁直流电机 C1034B018F 系列.

This specification applies to coin type permanent-magnetic motors DC model C1034B018F.

2. 使用条件/Operating Conditions

项目/Item		规格/Specifications
2-1	额定电压 Rated voltage	3.0V DC
2-2	使用电压范围 Operating voltage	2.7~3.3V DC
2-3	旋转方向 Rotation	CW (clockwise) or CCW (counter clockwise)
2-4	使用环境 Operating environment	-20~60℃,常湿/Ordinary Humidity:65±20%RH
2-5	保存环境 Storage environment	-30~70℃,常湿/Ordinary Humidity:65±20%RH

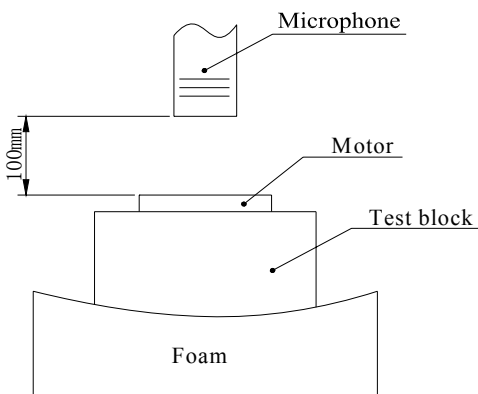
3. 测定条件/Conditions of Measurement

项目/Item		规格/Specification
3-1	温度 Temperature	25±3℃
3-2	湿度 Humidity	65±20% RH
3-3	电源电压 Power supply	稳压直流电源 3.0V。 Constant Power supply 3.0V DC.

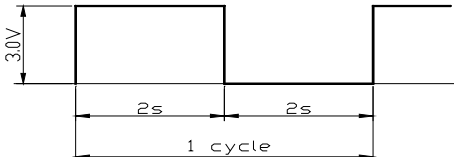
4. 电气性能/Electrical Characteristics

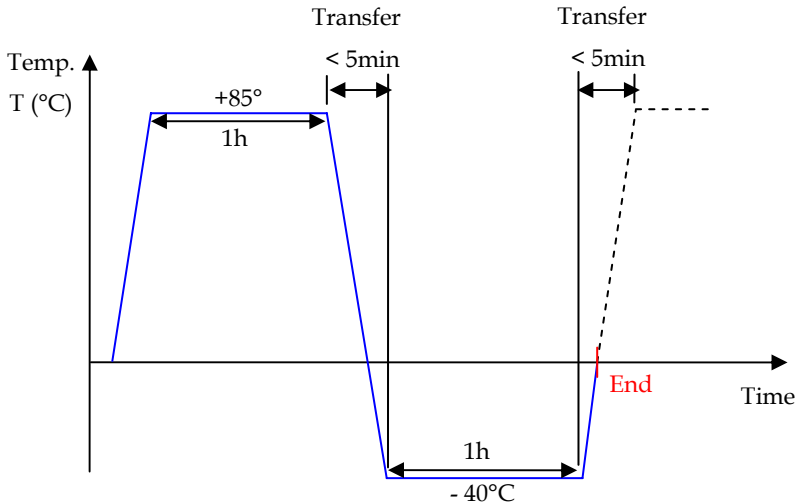
项目/Item		规格/Specification	条件/Condition
4-1	额定转速 Rated speed	11000 ± 3000	额定电压下。 At rated voltage.
4-2	额定电流 Rated current	80mA Max	
4-3	起动电流 Starting current	120mA Max	在最小起动电压下起动。 Motor is rotating at minimum starting voltage.
4-4	起动电压 Starting voltage	2.3V DC Max	
4-5	绝缘电阻 Insulation resistance	10MΩ Min	在 100V 直流下，导线和机壳间。 At DC 100V between lead wire and case.
4-6	端子阻抗 Terminal resistance	32 Ω ± 15%(单相 single posture) 63 Ω ± 15%(双相 compose posture)	在 25℃ 下。 At 25℃

5. 机械性能/Mechanical Characteristics

项目/Item	规格/Specification
5-1	底盖偏转强度 Bracket Deflection strength 9.8N 以上 9.8N or more.
5-2	机械噪音 Mechanical noise 小于 50 分贝. A 计权 50dB (A) Max. 在额定电压下。At rated voltage. 背景噪音：不大于 28dB. A 计权. Back ground noise 28dB (A) Max. 

6. 耐久性能/ Reliability Tests

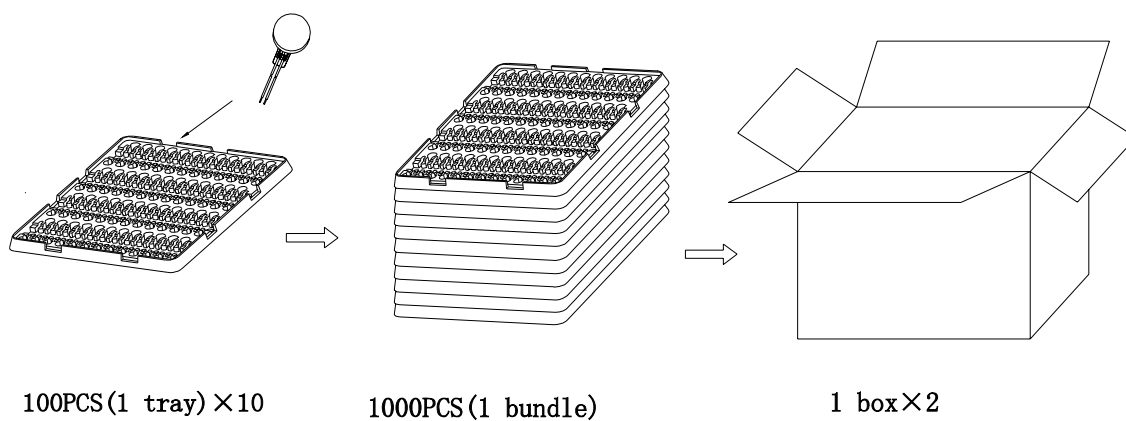
项目/Item	规格/Specification	判定标准/Judgment
6-1	寿命 Lifetime 额定电压/ Rated voltage: 3.0V DC 试验模式/ Test mode: 2s On, 2s Off, as one cycle. 循环次数/ Test cycle: 50,000 cycles 	试验后，马达应符合项 7-1 的要求。After the test, motors shall be approved as specified in item 7-1.
6-2	低温放置 Low temperature exposure 温度/Temperature: -30℃ 时间/Time: 96h	常温常湿下放置 4h 后，马达应符合项 7-2 的要求。After 4 hours exposure in ordinary temperature and humidity, motors shall be approved as specified in item 7-2.
6-3	高温放置 High temperature Exposure 温度/Temperature: +70℃ 时间/Time: 96h	常温常湿下放置 4h 后，马达应符合项 7-2 的要求。After 4 hours exposure in ordinary temperature and humidity, motors shall be approved as specified in item 7-2.

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项目/Item		规格/Specification				判定标准/Judgment	
6-4	湿度放置 High Humidity exposure	温度/Temperature: +40℃ 湿度/Humidity: 95%RH 放置时间/ Exposure time: 96h 无水气凝结/ No condensation of moisture				常温常湿下放置 4h 后，马达应符合项 7-2 的要求。After 4 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-2.	
6-5	振动 Vibration	全振幅/Displacement: 1.5mm (p-p) 频率/Frequency: 10~55Hz 加速度/Acceleration: 22m/s ² 周期/Period: 10 分钟范围内 (10~55~10Hz)/ 10 Minutes log sweep (10~55~10Hz) 条件/Condition: 在样机中，在 3 个垂直的轴方向每个方向做 10 分钟的测试。Samples shall be applied for a period of 10 minutes in three axial directions.				测试结果应符合项 7-2 的要求。After the test motors shall be approved as specified in item 7-2.	
6-6	自然跌落 Free fall	试验状态/Test mode: 将马达固定在约 100 克（包括马达本身）的物体上，落向水泥地面。Set the motor to a fixture of approx. 100g (include the motor) and drop it onto the concrete floor. 高度/Height: 1.5m 方向/Direction: ±x, ±y, ±z 次数/Number of times: 每个方向 3 次/ Each 3 times				测试结果应符合项 7-2 的要求。After the test motors shall be approved as specified in item 7-2.	
6-7	热冲击 Thermal shock	测试模式/ Test mode: 1 hour at -40℃, 1 hour at +85℃, as one cycle. Transfer time between extreme temperatures: <5 分/5min 循环次数/Test cycle: 15 cycles 				常温常湿下放置 4h 后，马达应符合项 7-2 的要求。After 4 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-2.	

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8. 使用时注意事项/ Cautions for Use			
8-1 必须按照规格书标准使用, 否则性能和寿命都将受到相当地减少, 必须注意电压的使用范围。 Unless it is used in accordance with the specifications, the performance and life may be considerably reduced. Due attention should be paid to voltage and range for use.			
8-2 建议马达在六个月内使用, 不要在以下环境中使用及保存: 1. 高温和高湿的场所; 2. 腐蚀性气体,如: H₂S、SO₂、NO₂、Cl₂; 3. 生锈场所。 Advice uses this motor within 6 months as avoiding as possible. Avoid use or save the motor in the following environment. 1. High temperature and high humidity area 2. Corrosive gas such as H₂S, SO₂, NO₂, Cl₂. 3. Dusty area.			
8-3 注意处理马达的工作环境, 避免含铁质等物体被马达吸住, 否则马达将会产生噪声, 性能会降低, 从而减少产品可靠性。 Due attention must be paid to the handling and working environments because such objects as iron powder if attracted by the motor magnet, will cause noise, characteristic deterioration thus reducing the reliability.			
8-4 应确信本产品不会与相关标准、法律、政令相背。 Please confirm enough no problems of standards and laws and ordinances on your cellular phone.			
8-5 拿马达时, 要轻拿轻放。 To handle the motor, hold the motor case softly.			
8-6 钢板面或边缘有少许锈斑是允许的。 Rust of plate (steel) and similar edge should be OK.			

9.包装/PACKING

扁平系列马达包装 Pack drawing of coin type

**Remarks:**

4000PCS/CTN: 45cm×28cm×20cm

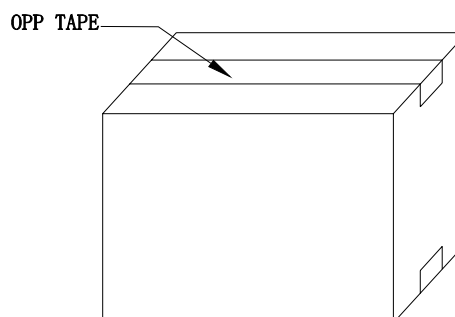
6000PCS/CTN: 45cm×28cm×30cm

包装试验要求:

沿外包装箱±x, ±y和±z方向, 距水泥地面1.5m高度, 各自由跌落2次, 马达应无机械损伤, 电气性能仍符合标准要求。

Drop Test with carton:

Drop the carton in the axial directions of ±x, ±y, ±z onto the concrete floor from 1.5m height, drop twice each direction. After drop test, no mechanical damage to motors, and the electrical performances remain unchanged.



10. 外形图/ OUTLINE DRAWINGS

