



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	LRA 扁平振动马达 LRA Coin Vibration Motor		
型号Part No.	VG0832077U		
送样日期Date			
设计Designed by	审核Checked by	批准Approved by	
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2026.06.18	2026.06.18	2026.06.18	

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规格书内容

Contents of Specifications

1	适用范围/ General	3/13
2	使用条件/ Operating Condition	3/13
3	测定条件/ Determination Conditions	3/13
4	性能标准/ Characteristics Standard	4-5/13
5	机械性能/ Mechanical characteristics	6/13
6	测定方法/ Determination Condition	7/13
7	可靠性实验/ Reliability Test	8-9/13
8	判断特性/ Requirements after reliable test	9/13
9	使用注意事项/ Points for Attentions	10/13
10	外形图/ Outline drawing	11/13
11	包装/ Packing	12/13
12	修订履历/ Modification Records	13/13

1、适用范围/General

本规格书适用于线性振动马达VG0832077U。

This specification applies to linear type motor VG0832077U .

2、使用条件/Operating conditions

项目/Item		规格/Specification
2-1	额定电压/Rated Voltage	1.8VrmsAC, Sine wave
2-2	使用电压范围/Operating Voltage	0.1~1.9VrmsAC
2-3	振动方向/Direction of vibration	Z axis
2-4	使用环境/Operating Environment	-20°C~+60°C, Ordinary Humidity:65±20%RH
2-4	输入频率/Input Frequency	205±10Hz
2-5	保存条件/Storage Conditions	-30°C~+70°C, Ordinary Humidity:65±20%RH

3、测定条件/Determination Conditions

一般情况下，马达可以在 22~28°C，相对湿度 45~85%RH 的环境中测试.为保证一致性，测试应在下表规定内进行 Normally, the motor could be tested under 22~28 °C ,45~85%RH. To ensure the coherence, it must be tested under below environment requirements:

项目/Item		规格/Specification
3-1	温度/Temperature	25°C ± 3°C
3-2	湿度/Humidity	65 ± 20%RH
3-3	气压/Air Pressure	1011 ± 40 hpa

4、性能标准/ characteristics Standard

项目/Item		规格/Specification	测试条件/Test Condition
4-1	额定电压/ Rated Voltage	1.8VrmsAC, Sine wave	1.8VrmsAC, Sine wave
4-2	额定频率 Rated Frequency	205 ± 10Hz	205 ± 10Hz, 1.8VrmsAC, sine wave
4-3	Rated Current 额定电流	Max 80mArms	
4-4	Acceleration F0 点振动量	Min.1.0Grms	
4-5	Frequency Characteristics 频率特性	205 ± 10Hz	Refer to Figure 1
4-6	Rise Time 上升时间	Max 50ms	205 ± 10Hz, 1.8VrmsAC, sine wave 加速度上升到典型值的50%/ Rise to 50% of the nominal acceleration 
4-7	Falling Time 下降时间	Max 80ms	205 ± 10Hz, 1.8VrmsAC, sine wave 加速度下降到典型值的 50% / Down to 50% of the nominal acceleration 
4-8	绝缘电阻 Insulation Resistance	10M Ω Min (100V)	在 100V 直流电压下机壳与导线/At DC 100V Between wire and case
4-9	阻抗 Resistance	20 Ω ± 10%	在 25℃ 下/Below 25℃

Acceleration Characteristics

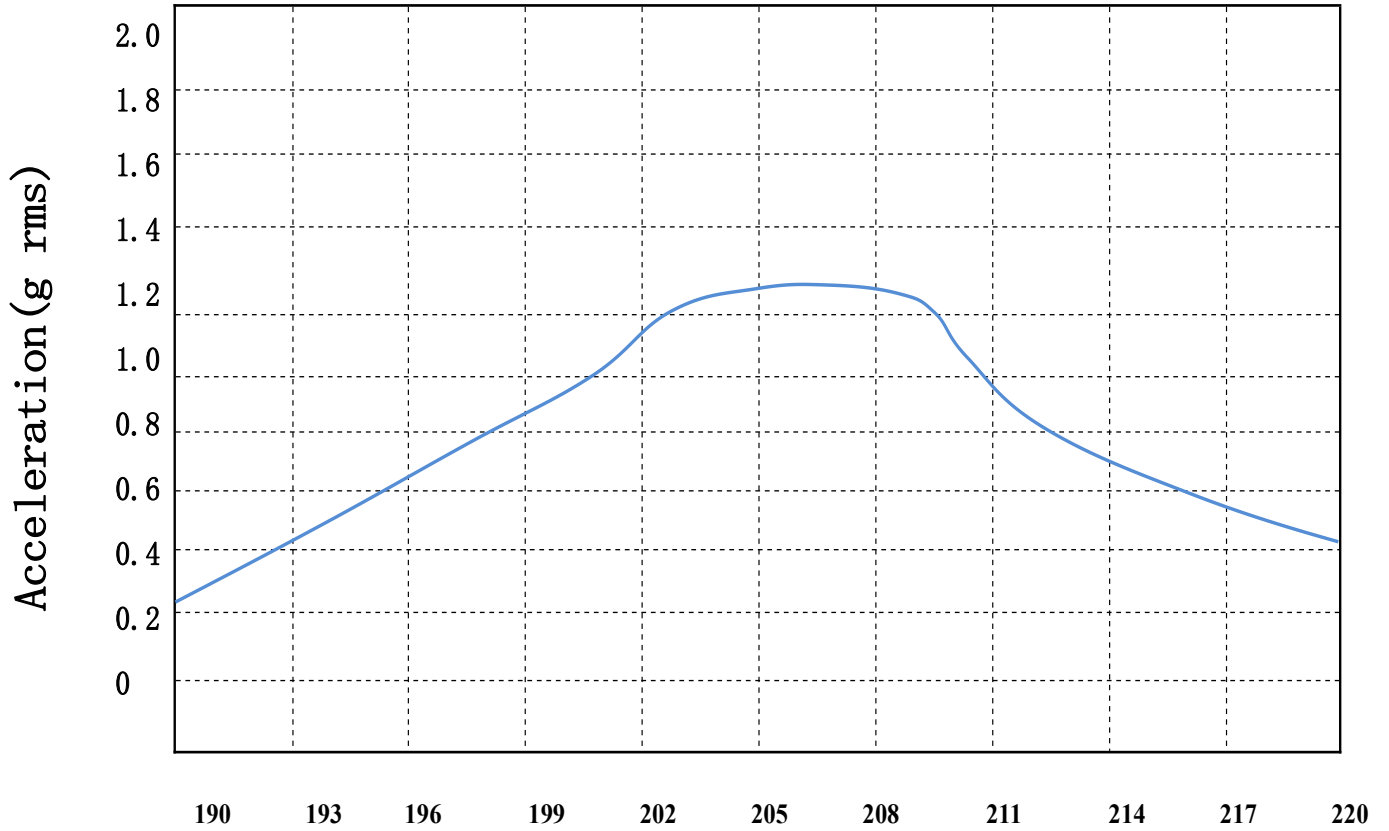
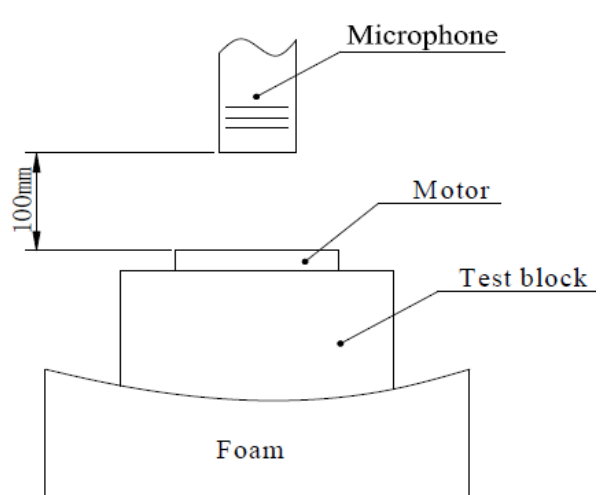
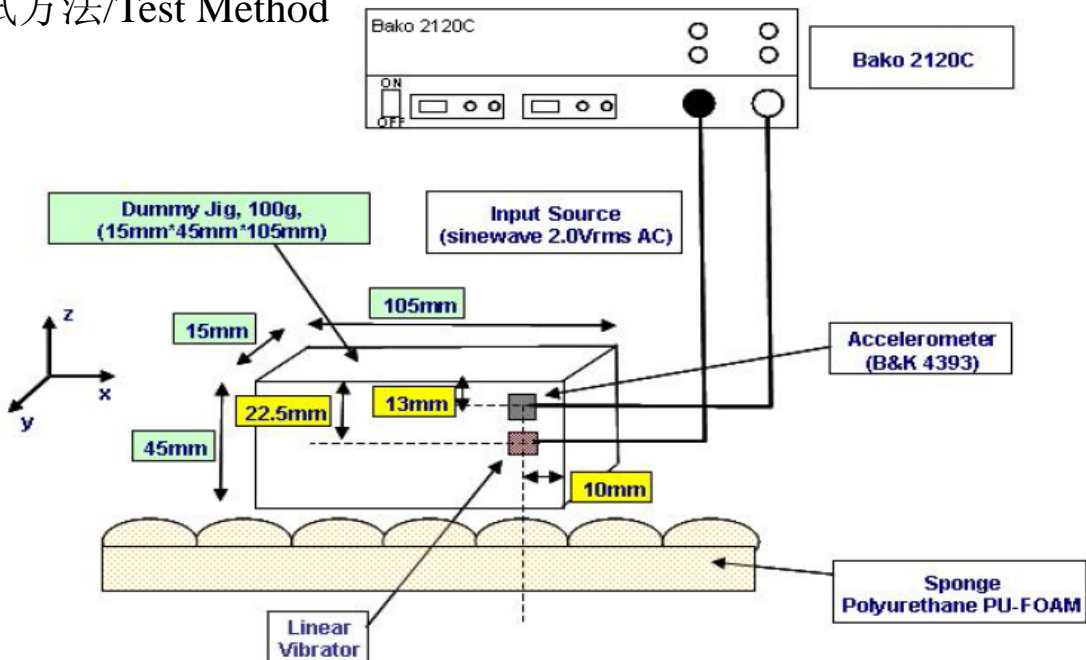


Figure 图一

5、机械性能/Mechanical characteristics

项目/Item		规格/Specification	测试条件/Test Conditions
5-1	噪音/Noise	50分贝最大/50dB Max. (10cm distance from microphone/ 距离麦克风 10 cm 的位置)	<p>205 ± 10Hz, 1.8VrmsAC, sine wave) 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</p> 
5-2	马达尺寸 Size of motor	Φ8*3.25mm	slide calipers
5-3	原子线抗拉强度 Anti-pulling strength of atomic line	最小 5N/5N(0.5kgf) Min	破坏性测试, 对原子线沿着轴向施加推力 Destructive test, give pulling force to the atomic line along to the axial direction.

6、测试方法/Test Method



An Example of Measurement Method of Figure 2 测试方法 图 2

6-1 线性马达加速度测试安装位置(参考图 2)

Linear Vibrator/ Accelerometer mounting position (refer to Figure1)

6-2 线性马达/加速度测试 sensor

Linear Vibrator/Accelerometer

6-3 线性马达测试虚拟 Jig 厚度 15mm

Linear Vibrator Dummy Jig 15mm

6-4 虚拟 JIG 位置尺寸

Dummy Jig position

6-5 虚拟 Jig 15mm*105mm

Dummy Jig 15mm*105mm

6-6 虚拟 Jig 应放置在泡棉上

Dummy Jig should be located on Sponge

Figure 1. Linear Vibrator Frequency Characteristics/频率特性

6-7 加速度测试条件

Measurement of Acceleration/

6-8 输入电压: 1.8VrmsAC, sine wave

Input Source (1.8VrmsAC, sine wave)

6-9 输入电压 2~3s 后, 测定线性马达的加速度

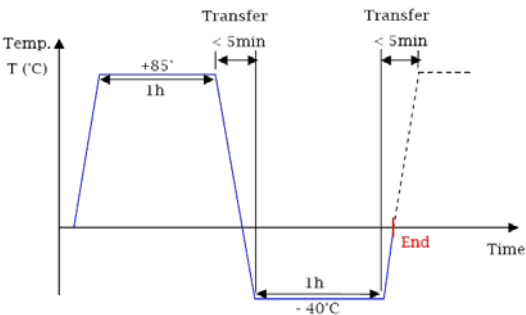
Acceleration of Linear Vibrator should be measured 2~3second later when source inputed (1.8VrmsAC,sine wave)

6-10 为了保证测定的精确性, 测定三次取三次平均值

For the precise measurement, Acceleration of Linear Vibrator is average data (repeat3 time)

7、耐久性能/Durability characteristics

项目/Item		测试条件/Test Condition	判定标准/Judgment
7-1	寿命 Lifetime test	1、试验循环/Test cycle:1,000,000 cycle (1cycle: 2sec on/1sec off) 2、测试设备/Test equipment: 寿命试验机 /Lifetime test machine. 3. 输入电压(1.8VrmsAC, Sine wave),输入频率: 205±10HZ Input voltage : 1.8VrmsAC,Sine -wave), Input frequency(205±10HZ)	试验后, 马达应符合第 8 项的要求/ The test result should meet the requirements of item 8.
7-2	低温放置 Low temperature storage test	温度/Temperature:-40±2℃ 时间/Time :96H	在常温下放置 4 小时后, 马达应符合 第 8 项要求/ After 4-hour storage, the test result should meet the requirements of item8.
7-3	高温放置 High temperature storage test	温度/Temperature:80±2℃ 时间/Time :96H	
7-4	湿度放置 Humidity storage test	温度/Temperature:55±2℃ 湿度/Humidity:95%RH 时间/Time :96H 无水气凝结/No condensation of moisture	
7-5	振动/Vibration test	1. 马达固定治具重量 180g The motor fixed fixture weight 180g 2. 全振幅/Double amplitude:1.5mm(p-p) 3. 频率/Frequency:10~55Hz 4. 加速度/Acceleration:22m/s 5. 周期/Period:10min 范围内 (10~55~10Hz) /10Minutes log sweep(10~55~10Hz) 6. 条件/Condition:在样机中, 在 3 个直的 轴方向每个方向做 1H 测试/ Do the test at three straight shaft directions for ten minutes to the samples.	测试结果应符合第 8 项要求/ The test result should meet the requirements of item 8.

7-6	自然跌落/Drop test	<ol style="list-style-type: none"> 1. 试验状态/Test status:将马达固定在重量约 180g（包括马达本身）的物体上，落向水泥地面/Fix the motor on a object weighted about 180g (include the motor) and drop it to the cement floor. 2. 高度/Height:1.5m 3. 方向/Direction : ±X, ±Y, ±Z 4. 次数/ Number of the test:每个方向 3 次/times for each direction 	测试结果应符合第 8 项的要求/ The test result should meet the requirements of item 8.
7-7	温度冲击试验 Temperature shock test	测试模式/Test mode: 1 hour at -40°C, 1 hour at 85°C, as one cycle, Transfer time between extreme temperatures: <5 分钟 /5min 循环次数: 15cycles 	在常温下放置 2 小时后，测试结果应符合第 8 项要求 / After 2 hour exposure in ordinary temperature and humidity and the test result should meet the requirements of item 8.

8、判断特性/Requirements after reliable test

8-1 试验后应满足下列条件

- 变化率: 不超出初始值的 ±30%
- 额定电流: 80 mArms Max.
- 噪音: 50dBMax

8-2 外观、结构方面无异常发生

8-1 After test, following specifications must be satisfied.

- Acceleration: Initial Value ±30%
- Rated Current: 80mArms Max
- Noise_T: 50dBMax

8-2 There should be no abnormalities to happen in structure.

9、使用注意事项/ Points for Attentions

9-1. 必须按照规格书标准使用, 否则性能与寿命都将受到相当的减少, 必须注意电压的使用范畴.

Make sure to use the motor in accordance with the specifications, if not, the lifetime might be reduced accordingly, pay high attention to the range of the voltage.

9-2. 建议马达在 6 个月内使用, 不要在以下环境中使用及保存.

9-2-1. 高温与高湿的场所.

9-2-2. 腐蚀性气体, 如: H₂S, SO₂, NO₂, CL₂;

9-2-3. 生锈场所;

The motor is suggested using within 6 months. Do not use or store the motor under below environments:

9-2-1. High temperature and high humidity area;

9-2-2. Corrosive gas such as H₂S, SO₂, NO₂, CL₂;

9-2-3. Dusty area;

9-3. 注意处理马达的工作环境, 避免含铁质物体被马达吸住, 否则马达将会产生噪音, 性能会降低, 从而降低产品的可靠性.

Pay attention to the working environment of the motor, avoid any iron material sucked by the motor, or the motor might cause noise and the performance will be degraded, meanwhile, the reliability might be reduced.

9-4. 应确信本产品不会违背相关的标准, 以及法律法规与行政令.

Make sure the product will not violate any local relevant standards, as well as laws and regulations.

9-5. 拿马达时, 要轻拿轻放.

Handle with care.

9-6. 钢板面边缘有少许锈斑是允许的.

A little rusty spot at the steel plate surface is allowed.

9-7. 我司遵循持续发展的策略, 在不预先通知的情况下, 有对产品 (部品) 进行修改和改进的权利, 当然这些都不会影响马达的特性及使用功能.

Our company follow the sustainable developing strategy, and have the right to make change and improvements to our product without giving notice in advance . of course ,these changes and improvements will not affect the characteristics and function of the motor.

11、外形图/Outline Drawing

Double side tape
TESA 60975 (ø7x0.1t)

Release paper

Refer to Note 4

Refer to Note 5

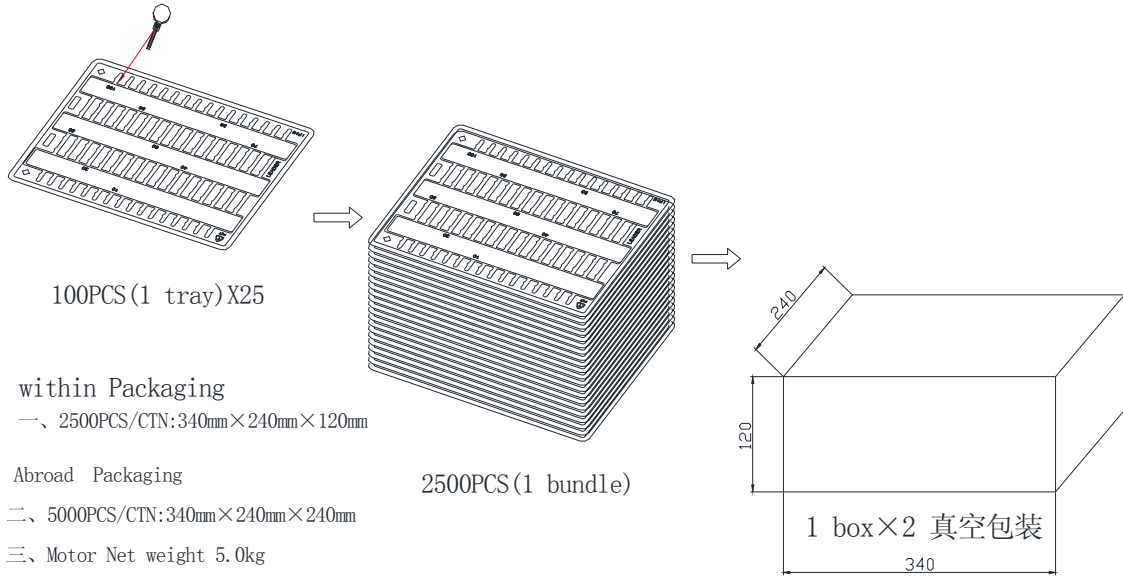
Rubber cushion
SRS-48P(ø7x0.35t)

产品型号	VG0832077U		
额定电压	1.8Vrms/AC		
额定负载	0.1~1.9Vrms/AC		
额定频率	205±10 Hz		
额定电流	Max 80mA		
F0点激励量	1.0Grms		
电阻	20Ω±10%		
绝缘电阻	10MΩ Min		

VG0832077U		Vybronic
标记	数量	分区
设计	张勇	2026.06.18
校对	陈国栋	2026.06.18
审核	徐旭	2026.06.18
工艺		
阶段标记		比例
共		第
页		页

10、包装/Packing

线性系列马达包装
Pack drawing of linear type



within Packaging

一、2500PCS/CTN:340mm×240mm×120mm

Abroad Packaging

二、5000PCS/CTN:340mm×240mm×240mm

三、Motor Net weight 5.0kg

四、Total weight 7.0kg

五、包装试验要求:

Packaging test requirements:

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。

Along the outer packing box + X, + y and + Z direction, from the cement ground 1.5m height, the free fall 2 times, the motor should have no mechanical damage, electrical performance is still in line with the standard requirements.

