



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.	VG1030001XH		
送样日期Date			
设计Designed by	审核Checked by	批准Approved by	
陳满	陈满	陈满	
2023.12.18	2023.12.18	2023.12.18	

www.vybronic.com

sales@vybronic.com

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1. Operating scope 适用范围

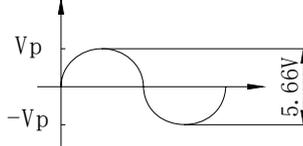
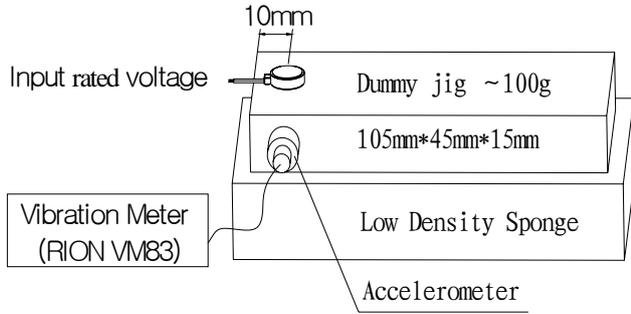
This specifications apply to linear vibrator model VG1030001XH.

本规格书适用于 VG1030001XH 线性振动器。

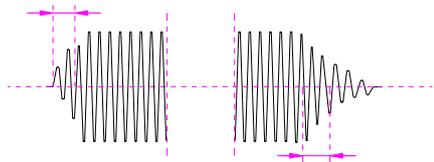
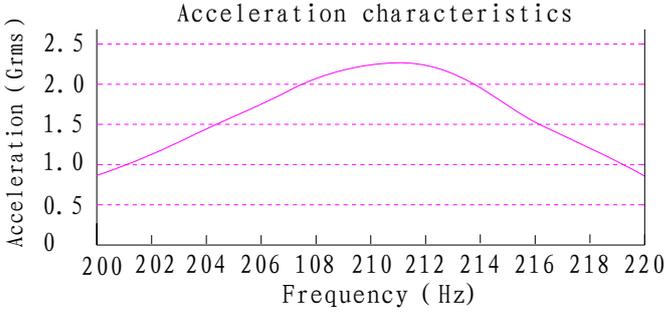
2. Storage, Operating temperature / Humidity conditions 储存、使用温度/湿度条件

No	Items/项目	Conditions /条件
2-1	Operating temperature range 工作温度范围	-25°C ~ +70°C
2-2	Storage temperature range 储存温度范围	-40°C ~ +80°C
2-3	Operating humidity range 工作湿度范围	65% RH ± 20%
2-4	Storage humidity range 储存湿度范围	Max. 65% RH

3. Standard test conditions 标准测试条件

NO	Items/项目	Conditions /条件
3-1	temperature/温度	20°C ± 5°C
3-2	Humidity/湿度	65 RH ± 20%
3-3	Rated voltage 额定电压	2.0 Vrms AC Sinewave 
3-4	Operating frequency 工作频率	210Hz
3-5	Measuring method 测试方法	An example of the test is shown below 测试示例如下 

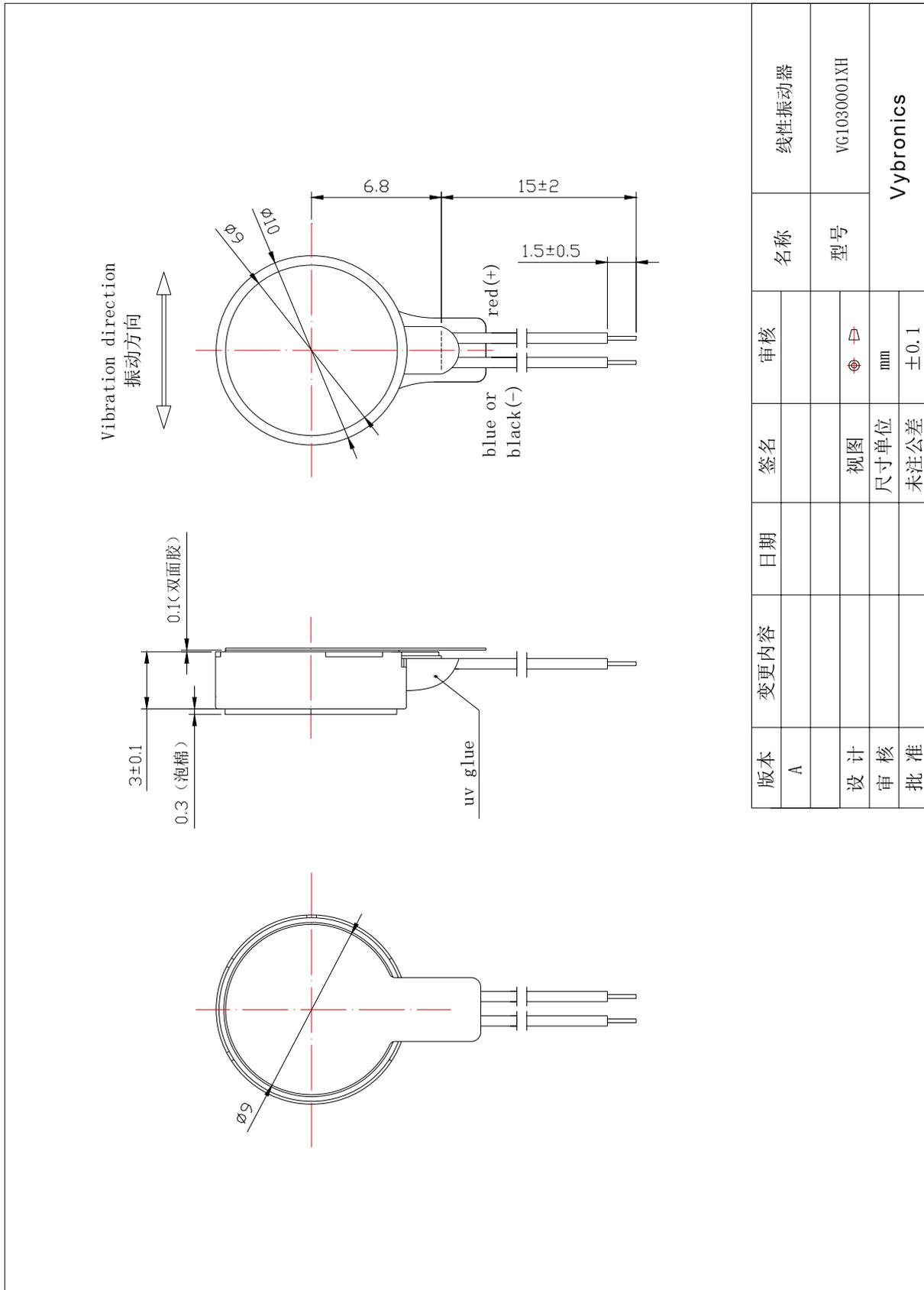
4. Specifications 技术参数

NO	Items/项目	Specifications/参数	Conditions 条件
4-1	Operating voltage range 工作电压范围	0-2.1 Vrms	
4-2	Resonant Frequency 谐振频率	F0 210±10Hz	
4-3	Rated current 额定电流	Max. 135mArms	2.0Vrms AC sine wave F0
4-4	Vibration direction 振动方向		See outline drawing 见外形图
4-5	Rated acceleration 额定加速度	Min.2.0Gp @F0	Refer to item 3-5 test
4-4	Rising time 上升时间	Max.50msec	The time reaching to 50% of normal acceleration from power on 通电达到正常加速度的 50%的时间 Rising time (msec) 
4-5	Falling time 下降时间	Max.100msec	
4-6	Insulation resistance 绝缘电阻	Max. 10M Ohm	Input 100V DC between terminal and housing. 在端子和外壳间输入 100V 直流电
4-7	Terminal resistance 端子电阻	17Ω±20%	At 20 ± 2°C
4-8	Noise 噪音	Max. 50dB-A	10cm distance from microphone, 振动器距离拾音器 10cm,
4-9	Acceleration frequency characteristics 加速度频率特性	Acceleration characteristics 	

5. Reliability test 可靠性试验

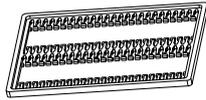
NO.	Items 项目	Standard test conditions 标准试验条件	Judgment 判定
5-1	Life test 寿命试验	Operating at rated input voltage, 在额定输入电压下运行 Temperature/温度: 25°C±5°C Humidity/湿度: 65±20%RH Mode 方式: 1S on 1S off (one cycle) Operating cycle 运行周期: 500000 cycles	After the test, After 4 hours placed in ordinary temperature and humidity, vibrator shall be satisfy with specified in item 6-8 试验结束后, 在常温常湿中放置 4 小时后, 振动器应满足 6-8 中规定的要求
5-2	Low temperature storage test 低温储存试验	Temperature 温度: -40 ± 3°C Time 时间: 168hours	
5-3	High temperature storage test 高温储存试验	Temperature 温度: +80 ± 3°C Time 时间: 168hours	
5-4	Heat shock test 温度冲击试验	-30 °C and + 70 °C for 1 hour respectively is a cycle, Total 12cycles. -30°C和+70°C各 1 小时为一个周期, 共 12 个周期	
5-5	Humidity storage test 湿热储存试验	Temperature 温度: +55 ± 3°C Humidity 湿度: 95%RH Time 时间: 96hours	
5-6	Drop test 跌落试验	Jig weight 治具重量: 100g High 高度: 1.2m Times 次数: 6 surfaces, 2times in each surface Floor 地面: Concrete floor 混凝土地面	
5-7	Vibration test 振动试验	Jig weight 治具重量: 150g Peak-Peak value 振动峰峰值: 1.5mm Frequency 频率: 10-55-10Hz/min Direction 方向: x-y-z Time 振动时间: 30 minutes/Each of axis	
5-8	After test, following specifications must be satisfied/试验后, 必须满足以下规范		
	1、Rated acceleration 额定加速度: Within initial Value ± 35%		
	2、Rated Current 额定电流: Max. 135mArms		
	3、Noise T 噪音: Max. 50dB		
4、There should be no abnormalities in appearance and structure.外观和结构应无异常。			

6. Outline drawing 外形图

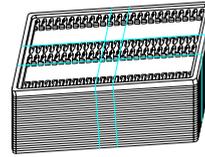


版本	变更内容	日期	签名	审核	名称	线性振动器
A					型号	VG1030001XH
设计			视图			Vybronic
审核			尺寸单位	mm		
批准			未注公差	± 0.1		

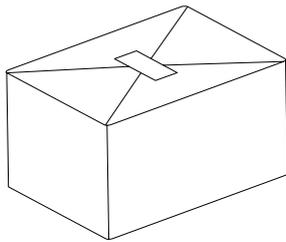
7. Packaging requirements 包装要求



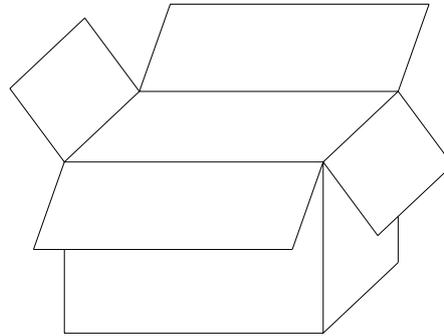
100pcs (1 tray)



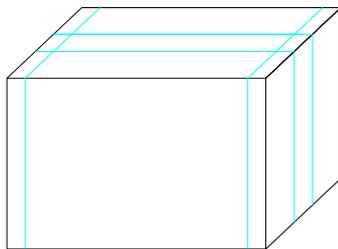
1k-2k pcs (1 baudle)
上部加盖一个空托盘，
然后用胶带打捆。



将打捆好的马达装入塑料袋，
然后用胶带封口。



4k -10k pcs (4-10 baudle)
马达装入纸箱



用胶带工字形封外箱

8. Caution for Use 使用注意事项

8-1. Please use vibrator in the specification of this specification. Otherwise the service life and performance of the vibrator will be affected. 请在本规格书规范内使用振动器，否则会影响振动器的使用寿命和性能。

8-2. Vibrators can't be used in high temperature, High humidity and corrosive gas environment. 振动器不能在高温、高湿度和有腐蚀性气体环境中使用。

8-3. Vibrators should be firmly fixed in the direction of vibration (Recommended Installation Force 5-8N), Otherwise it will be prone to noise. 振动器应牢牢固定在振动方向上(推荐安装力 5-8N)，否则容易产生噪声。

8-4. The vibrator has a strong magnet, So please be aware that it has a magnetic force on the surface of the bracket. 振动器有一个强的磁铁，因此请注意，它的支架表面有磁力。

8-5. Do not press the product with more than 0.8kgf , It can cause the transformation of performance or external appearance. 不要用超过 0.8Kgf 的力按压产品，那样会导致性能或外观的变化。

8-6. Under the conditions of meeting this specification, our company can change the material、size and shape of parts to improve quality、performance or production efficiency. 在满足本规范的前提下，我司可以改变零件材料、尺寸及形状来改善品质、性能或生产效率。

8-7. If there is any argument on vibrator performance and/or life, judgment is to be made base on this specification only. 如对振动器的性能和（或）寿命有任何争议，仅基于此规格书作出判断。