



重庆市灵龙电子有限公司

CHONGQING LINGLONG ELECTRONIC CO., LTD.

承 认 书

SPECIFICATION FOR APPROVAL

客 户Customer:

项目名称Project:


规格型号Part No:

L0832F-022678075-0012

客 户 确 认/ Customer Approved	
料 号/ Part No.	签 章/ Signatures

地址: 中国重庆市北部新区经开园灵龙工业区
Add: Linglong Industrial Zone, Northern Area of
CETZ, Chongqing P.R.China.
电话/Tel: 86-23-67463788
传真/Fax: 86-23-67463766
Http: [//www.lnlon.com](http://www.lnlon.com)
E-mail: lnlon@lnlon.com

存货编码/Stock	30502000019
拟制/Drawn	况青
审核/Check	江丰春
批准/Approved	章启策

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	2 of 13
		日期Date	2020-5-20

1. 适用范围/General

本规格书适用于重庆灵龙电子有限公司所提供的产品：L0832F-022678075-0012

The specification is applicable to Inlon's part:L0832F-022678075-0012

2. 使用条件/Operating condition

No	项目/Item	规格/Specification
2-1	额定电压 Rated voltage	1.8 V RMS AC SINE WAVE
2-2	使用电压范围 Operating voltage	0~1.85 V RMS AC SINE WAVE
2-3	输入频率 Input frequency	FIX 235±0.1 Hz FO 235±5 Hz
2-4	马达位置 Motor position	All positions
2-5	使用环境 Operating environment	-20~60℃, 10~90% (RH) No coagulation of moisture
2-6	保存环境 Storage environment	-30~70℃, 10~90% (RH) No coagulation of moisture

3. 测量条件/Measuring condition

一般情况下, 马达可以在5~35℃, 相对湿度45~85% (RH) 的环境中测试。为了保证一致性, 测试应在下表规定内进行Normally, it should be tested under 5~35℃, 45~85% (RH) .To ensure the coherence, it must be tested according to the below chart.

No	项目/Item	规格/Specification
3-1	温度 Temperature	25±3℃
3-2	湿度 Humidity	85%RH Max
3-3	测定位置 test position	Refer Figure 1

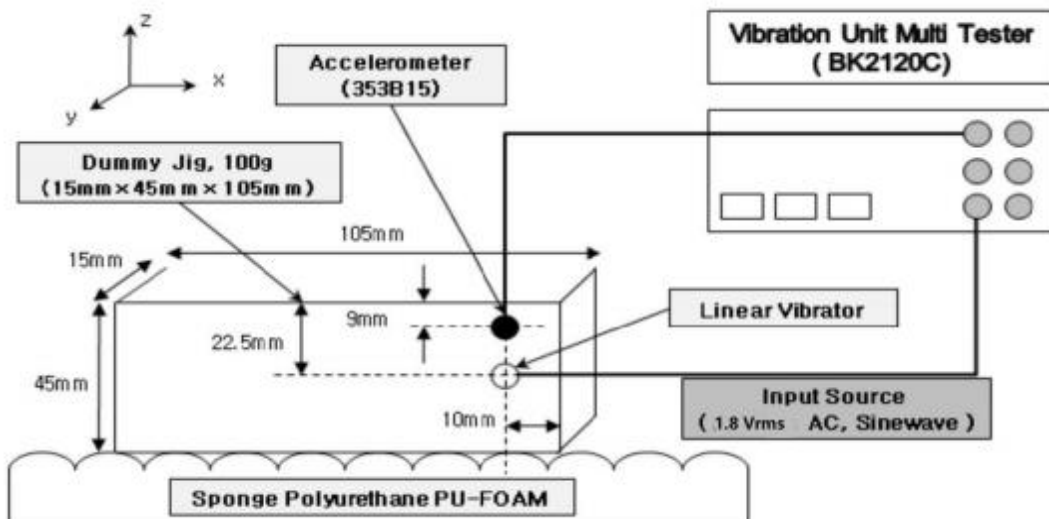



Figure 1


	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	3 of 13
		日期Date	2020-5-20

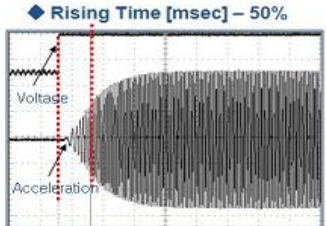
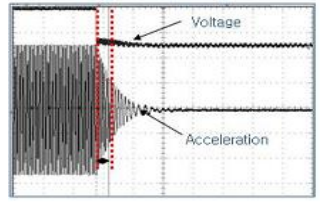
4. 机械要求/Mechanical specification

No	项目/Item	规格/Specification	测定条件/备注 Measuring conditions/Remark
4-1	外观 Appearance	No evidence of mechanical damage, rust corrosion, and so on.	Visual examination

5. 性能特征/Performance and characteristics

No	项目/Item	规格/Specification	测定条件/备注 Measuring conditions/Remark
5-1	端子阻抗 Terminal resistance	23±4 Ω	Test between the two touch pins
5-2	额定电流 Rated current	90 mA Max	Input Source:1.8 Vrms AC, sinewave, F0:205Hz
5-3	振动量 (定频) Acceleration (Fix)	1.0 Grms Min	Input Source:1.8 Vrms AC, sinewave, Fix:205Hz
5-4	振动量 (扫频) Acceleration (sweep)	1.4±0.2 Grms	Input Source:1.8 Vrms AC, sinewave, F0:235Hz±5Hz
5-5	频率特性 Frequency Characteristics	Refer Figure 2	
5-6	尺寸 Dimensions	Refer Figure 5	Test with vernier caliper or micrometer
5-7	重量 Weight	1.1±0.1 gram	Test with precision balance
5-8	定频噪音 Noise 1 Fix:205Hz	Noise by mechanical touch	35dB Max
		Noise THD	25% Max
		Noise Band	35dB Max
	扫频噪音 Noise 3 Sweep: 195-215Hz	Noise by mechanical touch	35dB Max
		Noise THD	25% Max
		Noise Band	35dB Max
5-9	绝缘电阻 Insulation resistance	10 MΩ Min	100V DC input, between Case and FPCB

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	4 of 13
		日期Date	2020-5-20

No	项目/Item	规格/Specification	测定条件/备注 Measuring condicions/Remark
5-10	响应时间 Rising Time	40 ms Max	
5-11	下降时间 Falling Time	55 ms Max	
5-13	机械噪音 Mechanical noise	45 dB Max	Refer Figure 2

额定电压下，背景噪声 ≤ 28 dB(A), 电机轴向水平固定在测试夹具上(100g)，拾音器沿轴向正对电机平面，距离10cm

At rated voltage and scene noise as 28dB(A)Max,the shaft is horizontally fastened to the test jig(100g).The Microphone faces the plane of motor along the shaft.The distance is 10cm.

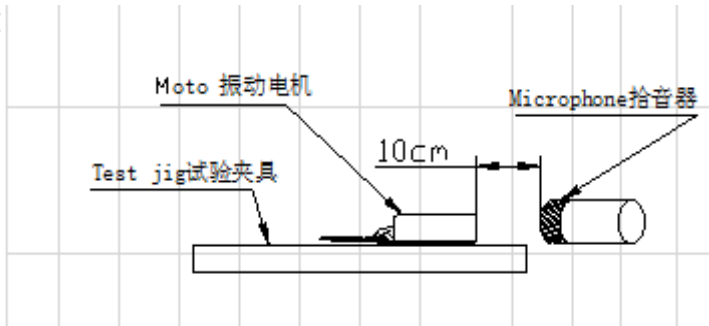


Figure 2

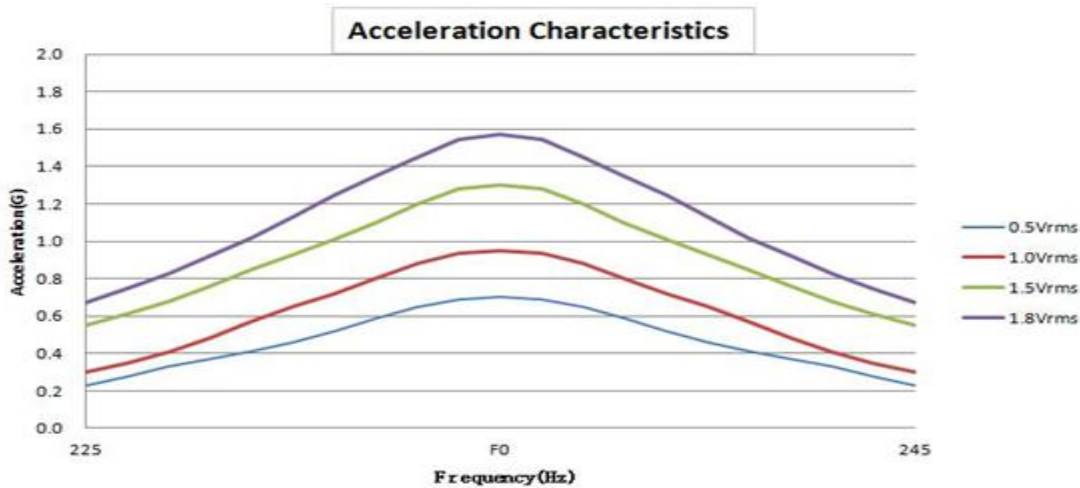
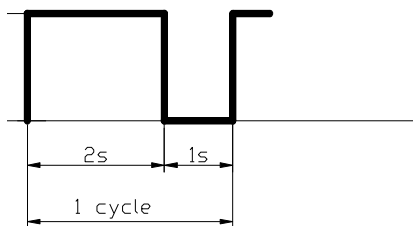
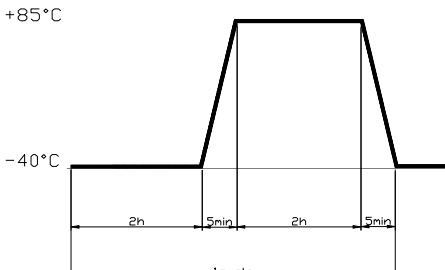




Figure 3

6. 可靠性/Reliability

No	项目/Item	测试条件/Specification	判定标准/Judgment
6-1	寿命 Life	 <p>常温常湿下共循环1000000次。 Cycle 1000000times in the ordinary temperature and humidity.</p>	<p>在常温常湿下放置4h后, 电机性能应符合以下要求。</p> <p>1) 振动量: 指标在初始值±30%以内 2) 额定电流: 指标在初始值±30%以内。 3) 响应时间和下降时间: 在规格书范围内</p> <p>After 4h under normal temperature and humidity, the motor performance shall meet the following requirements.</p> <p>1) Vibration quantity: the index is within ±30% of the initial value 2) Rated current: the indicator is within ±30% of the initial value. 3) Response time and descent time: within the scope of specification</p>
6-2	低温贮存放置 Low temperature storage test	<p>温度Temperature: $-40 \pm 2^{\circ}\text{C}$ 时间Time: 96h</p>	
6-3	高温高湿放置 High temperature storage test	<p>温度Temperature: 80°C 湿度Humidity: 85%RH 放置时间Exposure time: 96h</p>	
6-4	湿度放置 Humidity exposure	<p>温度Temperature: $60 \pm 2^{\circ}\text{C}$ 湿度Humidity: 95%RH 放置时间Exposure time: 96h</p>	
6-5	振动试验 Vibration	<p>全振幅Full swing: 2mm (p-p) 频率Frequency: 10 to 2000Hz 速率velocity: 1 octave per minute 方向Orientation: $\pm x, \pm y, \pm z$ 时间Time: 2h</p>	
6-6	温度冲击 (AIR-AIR) Temperature shock	<p>$+85^{\circ}\text{C}$</p>  <p>-40°C</p> <p>周期Period: 20times</p>	

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	6 of 13
		日期Date	2020-5-20

No	项目/Item	测试条件/Specification	判定标准/Judgment
6-7	跌落试验 Drop test	<p>试验状态:将马达固定在约180克(包括马达本身)的物体上,落向花岗岩地面 高度:1.5m 方向:±x. ±y. ±z 次数:每个方向3次</p> <p>Test state:Fasten the motor onto a object(180g) and then let it fall down to the granite floor. Height:1.5m Orientation:±x. ±y. ±z Times:3times per orientation</p>	<p>在常温常湿下放置4h后,电机性能应符合以下要求。</p> <p>1) 振动量:指标在初始值±30%以内 2) 额定电流:指标在初始值±30%以内。 3) 响应时间和下降时间:指标在初始值±30%以内。</p> <p>After 4h exposure in the ordinary temperature and humidity, the motor's performance should accord with below requirements:</p> <p>1)vibrator: Data±30% Max. 2)Rated current:Data±30% Max. 3)rising time and falling time: Data±30% Max.</p>

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	7 of 13
		日期Date	2020-5-20

7. 环境管理物质/Environmental management materials:

7.1 本产品应符合RoHS指令要求和无卤素要求

The product should be in compliance with RoHS requirements:

* 镉及其化合物最大允许含量为100PPM

Cadmium and Compound:100PPM Max

* 铅及其化合物最大允许含量为1000PPM

Lead and Compound:1000PPM Max

* 汞及其化合物最大允许含量为1000PPM

Hydrargyrum and Compound:1000PPM Max

* 六价铬及其化合物最大允许含量为1000PPM

+6 Chromium and Compound:1000PPM Max

* 多溴联苯及其化合物最大允许含量为1000PPM

PBB and Compound:1000PPM Max

* 多溴二苯醚及其化合物最大允许含量为1000PPM

PBDE and Compound:1000PPM Max

* 氯溴两种卤素之和最大允许含量为1500PPM

The allowed content of Cl,Br is 1500PPM Max for total.



产品规格书/specification

存货编码/Stock code.: 30502000019

No

LL-3-J-26780

版本Revision

A.1

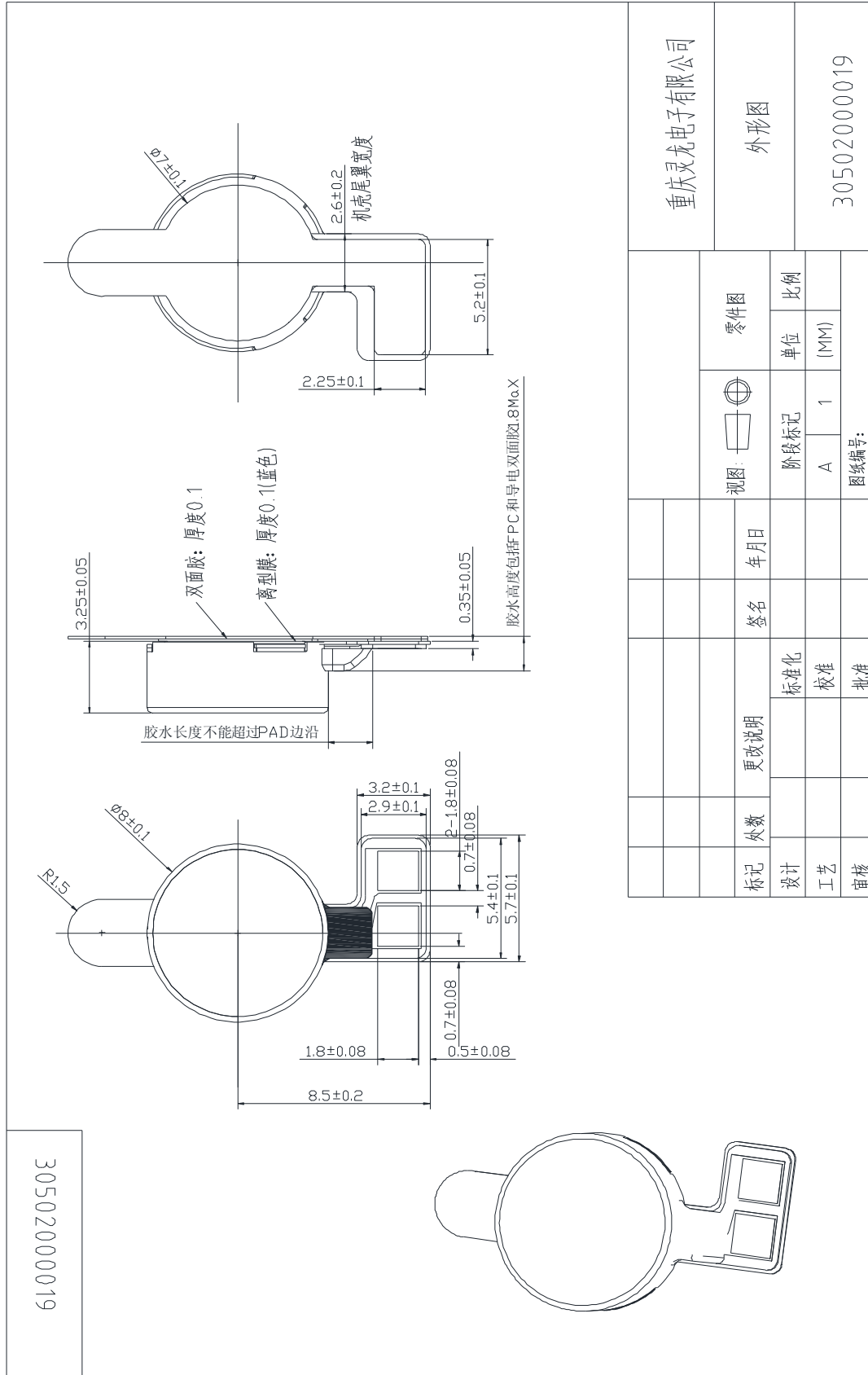
页码Page

8 of 13


日期Date

2020-5-20

8. 电机外形图/Motor outline drawing:



重庆灵龙电子有限公司		零件图		外形图	
		视图		30502000019	
		阶段标记		单位 (MM)	
		A		1	
		图纸编号:			
		签名		年月日	
		更改说明		标准化	
		外数		校准	
		标记		审核	
		设计			
		工艺			
		批准			

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	10 of 13
		日期Date	2020-5-20

10. 包装要求/Packing requirements:

10-1: 每个吸塑盒里放100PCS电机, 包装盒尺寸为248*203*11.5

100pcs/pallet, pallet size:248*203*11.5mm

10-2: 每21个包装盒用胶带捆成一捆, 数量为2000PCS.

21pallets/bundle, Qty:2000pcs

10-3: 每捆装入一个内箱里面, 数量为2000PCS. 内箱尺寸为260*220*175

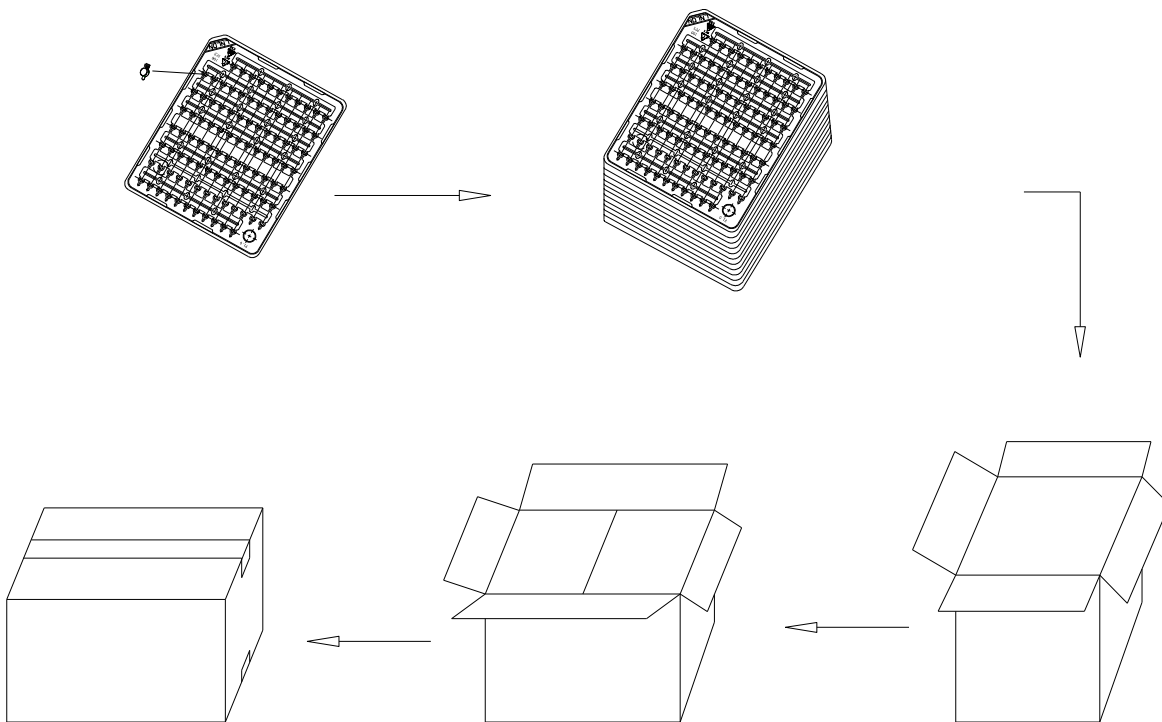
1bundles/inner box, Qty:2000pcs. box size:260*220*175mm

10-4: 每两个内箱放入一个外箱里, 外箱尺寸为465*280*200

2 inner-box/outer-box, box size:465*280*200 mm

10-5: 外箱封箱, 数量和生产批次, 均注明在外箱上面.

Seal the outer box and indicate the quantity, Lot No. on it.



10-6 包装试验要求/Packing test requirements:


(1) 标准: 整箱重量 $\leq 9\text{kg}$, 跌落高度设定为75cm; 整箱重量 $> 9\text{kg}$ 但 $\leq 23\text{kg}$, 跌落高度设定为60cm。


Standard: Gross weight $\leq 9\text{kg}$ Fall height is 75cm; Gross $9\text{kg} < \text{weight} \leq 23\text{kg}$ Fall height is 60cm.

(2) 试验方法: A、每面跌落1次, 共6次; B、任选三条同一角的棱, 各跌落一次, 共3次。

Test method: A、Fall one time per face, six times in total; B、Chose eight arris and fall one time each, three times in total.

(3) 判定基准: 经过跌落试验后, 产品外观、性能无不良。

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A. 1
	存货编码/Stock code. : 30502000019	页码Page	11 of 13
		日期Date	2020-5-20
Judgement:After the fall test,the appearance and the performance are both passed.			

	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A.1
	存货编码/Stock code.: 30502000019	页码Page	12 of 13
		日期Date	2020-5-20

11. 使用注意事项说明/Matters to be paid attention to when using motor

11-1 电机在运输过程中应小心轻放，避免碰撞敲击引起的电机机身和性能受损。

Please place the motors carefully in transportation to avoid any damage to the motor body or its electric function because of collision.

11-2 电机不能在高温、高湿、带有腐蚀性气体的环境中贮存和使用，否则有可能导致电机的性能下降。

Please don't leave and use the motors in the environment of high temperature, high humidity and corrosion gas, or it would cause the function to fall down.

11-3 不能长时间用外力锁死振动轮，以免烧坏线圈，电机不能工作。


Please don't lock up the vibrating wheel, or the coil would be burned up and the motors can't operate.

11-4 避免接触或靠近强磁性物体，否则有可能导致电机性能下降。

Please prevent from magnetic objects, or it may cause the function fall down.

11-5 请在6个月内使用，在使用时和打开包装时，请避免水气凝结。

Please use the motors within six months and prevent them from coagulation of moisture when open the package and use them.

 灵龙	产品规格书/specification	No	LL-3-J-26780
		版本Revision	A. 1
	存货编码/Stock code. : 30502000019	页码Page	13 of 13
		日期Date	2020-5-20

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [AC, DC & Servo Motors](#) category:

Click to view products by [LNLON](#) manufacturer:

Other Similar products are found below :

[M2E068-DF13-79](#) [79207644](#) [808550Y00049Z](#) [82520405](#) [82802504](#) [R88M-G10030H-S2](#) [R88MK10030H](#) [HG16-240-AB-00](#) [M4E068-EC03-01](#) [79265119](#) [80510503](#) [805470A40040MY](#) [805470B40020MY](#) [80627003](#) [82510019](#) [82714023](#) [82800003](#) [82830009](#) [82810017](#) [89830012](#) [82840003](#) [82840004](#) [82869011](#) [82524021](#) [82862202](#) [82869006](#) [82861013](#) [R88M-G75030H-BS2](#) [80803009](#) [80547015](#) [82862205](#) [R88M-K40030T-B](#) [82304012](#) [82330514](#) [81021118](#) [82867009](#) [82662515](#) [82524008](#) [82524006](#) [82344659](#) [82340184](#) [82334768](#) [82304032](#) [82304017](#) [81033031](#) [81021072](#) [80817014](#) [80813005](#) [80807021](#) [80804014](#)