深圳市安达电子有限公司

承认规格书

SPECIFICATION FOR APPROVAL

客户名称	日期	2013. 02. 25.	
CUSTOMER	DATE	2013. 02. 25.	
客户产品名称	供应商产品名称	圆扁型振动微电机	
CUSTOMER PART NAME	VENDOR PART NAME		
客户规格型号	供应商规格型号		
SPECIFICATION	SPECIFICATION	ANDA-B1020	
客户产品编码	供应商产品编码		
CUSTOMER PART NO.	VENDOR PART NO.		
制作 (PRE.): 张若华 审核 (CHKD BY): 李[国梁 批准(APPRO	WAL BY): 程云峰	
(以上内容由供应商填写)			
客户承认结果(APPROVAL RESULT):	承办(AP	PD):	
□合格(OK) □不合格(NG) □其他 (OTHER):			
说明(REMARK):			
	审核(CH	KD BY):	
	批准(A	PPROVAL BY):	
日期: 年 月 日			

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1. General/适用范围

This specification applies to ANDA-B1020 coin type coreless vibration motors to be used for pagers or mobile phone. 本规格书适用于 ANDA-B1020 圆扁形直流无铁芯振动微电机。

2. Operating condition / 使用条件

NO./ 序号	Items/项目	Specification/规格
2-1	Rated Voltage 额定电压	DC 3.0 V
2-2	Rated Speed (Type) 额定转速(代表值)	12500rpm
2-3	Rated current(Type) 额定电流(代表值)	60mA
2-4	Operating voltage 使用电压范围	DC2.4-3.6V
2-5	Temperature Range 使用温度范围	 Working temperature: -20℃~+70℃ 工作温度 Storage temperature: -30℃~+80℃ 贮存温度
2-6	Measuring condition 测定条件	 Measure at normal temperature and humidity if there is any doubt about judgement, measurements shall be made within 25±3℃ 65±20%RH 在常温常湿下测试,若对结果有任何疑议,均以 25±3℃,相 对湿度 65±20%RH 环境下的测试数据为准。
2-7	Appearance 外观	There shall be no evidence of mechanical damage 无机械损伤、无锈蚀。

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3. Electrical	3. Electrical characteristics / 电特性						
NO./ 序号	Items/项目	Specification	/ 规格	Con	dition-Remark /条	件-备注	
3-1	Rated speed 额定转速				t rated voltage and rated load vibration weight)		
3-2	Rated current 额定电流	70mA Max			定电压、额定负荷(分铜)		
3-3	Starting current 启动电流	110mA Max		At rat 额定电	ed voltage 引压、		
3-4	Starting voltage 起动电压	DC 2.3V Max			um Voltage fo: DFF Test) 式验能起动的最低电	0	
3-5	Terminal resistance 端电阻	(70 Ω Max)		Measu 端子间	re between termina 可电阻	ls	
3-6	Insulation resistance 绝缘电阻	10MΩ M	in	and a 直流 E	C 100V between n terminal 电压 100V,测电机 可绝缘电阻		

4. Mechanical Characteristics / 机械特性

NO./ 序号	Items/项目	Specification / 规格	Measuring condition/条件
4-1	Configuration 外形尺寸	As specified in outline drawing 参照外形图	
4-2	Mass 质量	1.2±0.5gf	
4-3	Mechanical Noise 机械噪声	50dB(A) Max	Measure at 10cm between Mic and output shaft MIC 与电机出力轴间距 10cm 测试 Measure at rated voltage 额定电压下测试 Mic Motor 10cm 10cm 100gf.Jig Sponge pad

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. Reliability	/ 可靠性					
NO./ 序号	Items/项目	Test condition /	/试验条件	Requirements /	判定基准	
5-1	Life 寿命	1 cycle /一个周期: 2sec ON 2 sec OFF Number of cycles/ 循环次数:		After the test ,motors shall be approved as specified in item 6-1 试验后,电机能满足 6-1 的规 定		
5-2	Low temp exposure 低温贮存	Temperature /温度: -30 Time /时间: 96 hours	Temperature /温度: -30±2℃ Time /时间: 96 hours		After 4 hours exposure in	
5-3	High temp exposure 高温贮存	Temperature /温度: 80±2℃ humidi Time /时间: 96 hours 实验后		ordinary temperature and humidity, motors shall be approved as specified in item 6-2 实验后在常温常湿条件下放置		
5-4	Humidity exposure 恒定湿热				百在吊温吊湿余件下放直时后,电机满足 6-2 的规定	
5-5	Heat cycle test 温度冲击	Temperature +70 °C -20 °C 0 1h 2h 3h 4h time		After 4hours ordinary tempe humidity ,motors approved as specific 实验后在常温常语 4小时后,电机满,	shall be ed in item 6-3 显条件下放置	
5-6	Vibration 定幅振动	Test cycle/试验循环周期 Displacement /全振幅: Frequency /周波数: 10- Period /周期: 1minute 10Hz) Attachment /附加配重: Direction /方向: X-Y-Z Time /时间: each 2 hour	1.5mm(p-p) 55Hz ,log sweep(10-55- 100gf	After the test, me approved as specifie		
5-7	Set the motor to the 100g(include the motor)wei Drop the motor on the conc 将电机放在一个重 100g		veight of block ncrete floor)g 的盒子里跌落 y、±z	试验后电机能满足		

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6. Requirements/判定基准						
	NO./ 序号	Items/项目		Requirement	s/判定基准	
	6-1	TABLE A 2)Rated current/额 3)Starting voltage// TABLE B 1)Rated speed/额定		预定转速: Initial dat '额定电流: Initial da ge/起动电压: DC 2.	ata/初始值±30%M	
	6-2			顶定转速: Initial dat		

2)Rated current/额定电流: Initial data/初始值±30%Max

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6-3	TABLE C	1)Rated speed/额定转速: Initial data/初始值±35%Max
0-3	IABLE C	2)Rated current/额定电流: Initial data/初始值±35%Max

7. Cautions/注意

- 7-1 Due attention should be paid to the voltage and current ranges for use 注意使用电压、电流范围
- 7-2 Avoid storing in high temperature, high humidity or corrosive gas environment. Not to be stored without running 避免存放在高温、高湿、腐蚀性气体的环境中。连续存放不应超过 6 个月.
- 7-3 Do not bring a magnetized object near or into contact with the surface because the performance of motor may be deteriorated 避免磁性物体靠近或接触电机表面
- 7-4 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.

注意使用环境因为诸如铁粉类物质吸附于电机磁石会导致噪音、性能变坏、降低可靠性

- 7-5 To avoid damaging terminals or lead wires, soldering time should be completed within 1-2 seconds. 焊接应在 1-2 秒内完成,以免损坏端子或导线.
- 7-6 To handle the motor, hold the motor case softly.Don't make over 0.5 Kgf force while attaching to the set. 搬运及手持电机时务必柔性夹持电机机壳. 安装及使用时机壳表面受到的压力不得大于 0.5 Kgf.
- 7-7.Important when sample approved, Please sign and returned by Fax before place order in order to fulfill our ISO requirement.

为本公司 ISO 程序的执行,样品确认后,请务必签章回传。

7-8. In event of no sign back, We will undertake P.O as acceptance to sample approval. 如样品确认后未签章回传,则以用户下订单为样品通过确认。

