

产品规格承认书 SPECIFICATION

文件编号 File No.: UME-EG-SP24012501/A1

| | | | |
|----------------|--------------------------------|-----------------|-----|
| 客户 Customer | AKON | 核准 Approval | ZL |
| 品名 Product | 开关电源 Switching power supply | 品管确认 QC | LTF |
| 型号 Model | AD-AKB120P500 | 审核 Check | ZL |
| 日期 Date | 2025-08-05 | 拟制 Execution | BMD |

| 客户承认意见 Confirmation by Customer | 客户签署 Stamp & Signature |
|---|---------------------------|
| <input type="checkbox"/> 合格 Accept | |
| <input type="checkbox"/> 不合格 Reject | |
| <input type="checkbox"/> 条件合格 Conditional Acceptance | |
| | |

确认签署后，请回传一份。有任何问题，请尽快告知我们。

Please return one copy to us with your signature and feel free to contact us for any questions.

厦门友盟电子有限公司

XIAMEN UME ELECTRONICS CO., LTD.

电话 Tel:0592-2611448

地址：厦门市翔安区莲亭路火炬八方工业园10号楼882-7号8楼

Add: 8th Floor, No. 882-7, Lianting Road, Xiamen Torch Hi-Tech Zone (Xiangan) Industrial Zone

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

目录 INDEX

| | | |
|----|---|-------|
| 1 | 变更履历 Revision History..... | 1-3 |
| 2 | 概述 Summary | 2-4 |
| 3 | 技术要求 Technical requirements..... | 3-4 |
| | 3.1安全标准 Safety Standards | 3-4 |
| | 3.2Input..... | 3-4 |
| | 3.3Output..... | 3-4 |
| | 3.3可靠性及质量控制 Reliability and Quality Control..... | 3-5 |
| | 3.4测试线路图 Test Circuit | 3-9 |
| 4 | 线路图 Schematic Diagram | 4-9 |
| 5 | 电路板图 P.C.B..... | 5-10 |
| 6 | CORD 图（单位 unit: mm 颜色 color: Black）..... | 6-11 |
| 7 | AC CORD 图..... | 7-12 |
| 8 | 外观示意图 Cord and Mechanical Drawing（单位 unit: mm 颜色 color: Black）..... | 8-13 |
| 9 | 铭板标识 Label..... | 9-14 |
| 10 | 包装方式 Packaging | 10-14 |
| 11 | 材料清单 BOM..... | 11-15 |

*** The products limited warranty period is 18 months.
(From date code of product.)**

● The products meet RoHS requirements.

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

2 概述 Summary

2.1 本文件包含一般的客户要求及电气、机构和安全性能等方面的描述。

This document contains general customer requirements and those of specific electrical, mechanical and safety for this product.

3 技术要求 Technical requirements

3.1 安全标准 Safety Standards

Japan: 電安法别表第八【JET6108-61010-1021】

3.2 Input

| | |
|----------------------------|---|
| Rated Input Voltage | 100-240Vac |
| Operating Range | 90-264Vac |
| Rated Input Frequency | 50~60Hz |
| Rated Input Current | 1.2A |
| Maximum Input Power | 75W |
| Input Power (No Load) | 0.21W Max |
| Primary Current Protection | Current fuse |
| AC Blade | PSE type AC Blade |
| AC Cable | <PS>E 2*0.75mm ² VCTFK L = 1800mm, Black, Lead-free soldering |

3.3 Output

| | |
|-------------------------|---|
| Rated output voltage | 12V ± 5% |
| Rated Load Current | 5000mA |
| Over Current Protection | 6.0A Min @Vin=100Vac/240Vac |
| Line Regulation | The line regulation is less than ±2% while measuring at rated load and +/-5% of input voltage changing. |
| Ripple | ≤ 200mVp-p |
| Switching Efficiency | 88% minimum @ input 115AC/230VAC to meet DOE6 |
| DC Plug | Φ2.5*5.5*11mm (EIAJ) |
| DC Cord | 18AWG UL2464 L = 1500mm, Black Lead-free soldering |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

3.4 可靠性及质量控制 Reliability and Quality Control
【Electrical Test Items】

| Item | | Conditions | Criteria |
|------|-------------------------|--|---|
| 1 | Leakage Current | Measure the leakage current between Primary and Secondary when adding rated input. AC input = Rating voltage (100/240V) | Less than 250 μ A |
| 2 | ESD Test | 1.Test is conducted at room temperature/humidity.(25 $^{\circ}$ C, RH 50-60%) 2.Test set is 150pF/150 Ω . 3.(1) \pm 4KV:Contact discharge test. +phase: 3times, -phase: 3times, total: 6times. (2) \pm 8KV:Air discharge test. +phase : 3times, -phase: 3times, total: 6times. (Note) After each ESD test, it should be discharged. | No malfunction (must be in spec after test). |
| | | 1.Test is conducted at room temperature/humidity.(25 $^{\circ}$ C, RH 50-60%) 2.Test set is 150pF/150 Ω . 3.(1) \pm 6KV:Contact discharge test. + phase: 3times, -phase: 3times total: 6times. (2) \pm 10KV:Air discharge test. + phase: 3times, -phase: 3times, total: 6times. (Note)After each ESD test, it should be discharged. | No destruction |
| | ESD Test (Ability test) | 1.Test is conducted at room temperature/humidity.(25 $^{\circ}$ C, RH 50-60%) 2.Test condition: 150pF/150 Ω . 3,Contact discharge / Air discharge 4,Load: 1)no load 2)rated load 5. Impressing 10 times continuously to plus and minus each. 6,Discharging once after impressing 10 times (To confirm the capacity of unit up to the unit destroyed) | It confirms at which voltage value the adapter breaks.(Note: Not part of qualification) |
| 3 | Hi-POT test | Condition=AC3000V, 1min. Test place=Between AC blade and DC plug Sensitivity current=10mA | No malfunction. (damage, arc, breakdown etc) |
| 4 | Insulation resistance | DC500V, 1min. Between AC blade and DC plug | More than 100M Ω |
| 5 | Temperature Rise Test | 1.Apply rating input voltage(100/240V), 2.Load: Charge actual Cellular phone 3.Measure the surface temperature of the adaptor 4.T ambient = The room temperature 5.Condition: Until it carries out temperature saturation (the definition of temperature than 1 $^{\circ}$ C in 1 hour). | Housing surface Temperature rise is less than 45K. |
| | | 1.Apply rating input voltage(100/240V), | Housing surface Temperature rise is less than 15K. |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

| | | | |
|---|------------------------|---|--|
| | | 2.No Load 3.Measure the surface temperature of the adaptor | |
| 6 | Input over / under | Apply voltage=(rating input voltage)x(1±30%) Impressed time : 24h | No destruction |
| 7 | EMI/Conducted Emission | Telephone stand by mode with rapid-charge condition | Conform to: FCC 47CFR Part 15 Class B J55014-1 |
| 8 | Surge | IEC61000-4-5 1.2×50µs 1.0KV Positive and negative all three times, Current limiting impedance 100 Ω, Time interval 30 seconds min. | No destruction. |

【Environmental Test Items】

| Item | Conditions | Criteria |
|------|--|--|
| 1 | Temperature range Electrical performance guarantees temperature range: 0°C to 40°C Electrical performance not guarantees working temperature range: -20°C to 50°C Storage temperature range: -30°C to 80°C | No abnormal appearance, mechanic performance or electric performance |
| 2 | High Temperature Leave 1. Temperature 80°C for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition for more than 1hour, then evaluate. | No abnormal appearance, mechanic performance or electric performance |
| 3 | Low Temperature Leave 1. Temperature -30°C for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition more than 1(hour), then evaluate. | |
| 4 | High Temperature Humidity 1. Temperature 50°C, air moisture 90-95% RH for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition more than 30min, then evaluate. | |
| 5 | Temperature Humidity test 1. Temperature 40°C, air moisture 90-95% RH for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition more than 30min, then evaluate. | |
| 6 | Heat Shock Test 1. Condition: -30°C/ 1 hour to +80°C/ 1 hour, 60 cycles 2. After that test, test set is left in normal temperature, humidity condition more than 1 hour, then evaluate. | |
| 7 | Heat/humidity Cycle Test A, C, D : RH=90 ± 10% B : RH= 90 ± 5% E : No limit After 5cycles, put EUT at room temperature/humidity condition | |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

| | | | |
|---|----------|---|----------------|
| | | | |
| 8 | Humidity | Operation is 10~85%. Storages is 5~95% | Non-condensing |

【Mechanical Test Items】

| Item | Conditions | Criteria |
|------|--|---|
| 1 | Drop Test | No parts remove, no abnormal mechanic performance, (outside scratches are acceptable) |
| 2 | Package Drop Test | |
| 3 | Unit Vibration Test | |
| 4 | Package Vibration | |
| 5 | AC Plug in/out Test (AC Blade part) | |
| 6 | Exfoliate with cellophane tape and examine it | A character do not disappear. Don't take the label off the main body |
| 7 | The reliability to face each other to come off the label | |
| 8 | No tally part step | less than 0.25mm after an environmental examination |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

【DC cord Test Items】

| Item | Conditions | Criteria |
|------|---|---|
| 1 | DC Cord strength (adaptor side / plug side) 1. Test part: Between adaptor and DC cord 2. Pull a cord with 98N(10Kgf) force 3. Time: 1min. | No abnormality such as wire cut, bushing come off |
| 2 | DC Cord Bending Test (adaptor side / plug side) Weight = 4.9N(500g) Angle = +/-90° Cycles in every minute = 40times/min. Test cycles = 1000times Note: contrarotate 90°, and then rotate it clockwise with 180°(+90° ~-90°) , and at last return to origin. (1 Cycle : 0° =>-90° =>0° =>+90° =>0°) | Operate properly. |

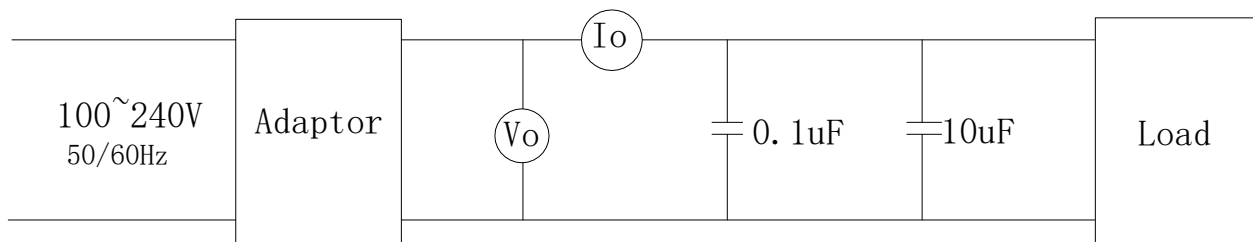
【Safety Test Items】

| | | | |
|---|--------------------|--|---|
| 1 | MTBF | Make a measurement condition, a calculation standard clear | More than 50,000 hours |
| 2 | Part materials | It is maintenance or the incombustibility of contact / part materials approaching it in an outer fence, the charge department of the electric part | same as UL94V-0; more than it |
| 3 | print board | Incombustibility | same as UL94V-0; more than it |
| 4 | No tally part step | Difference of the pitch by height differences of the tally part between casts | less than 0.25mm after an environmental examination |

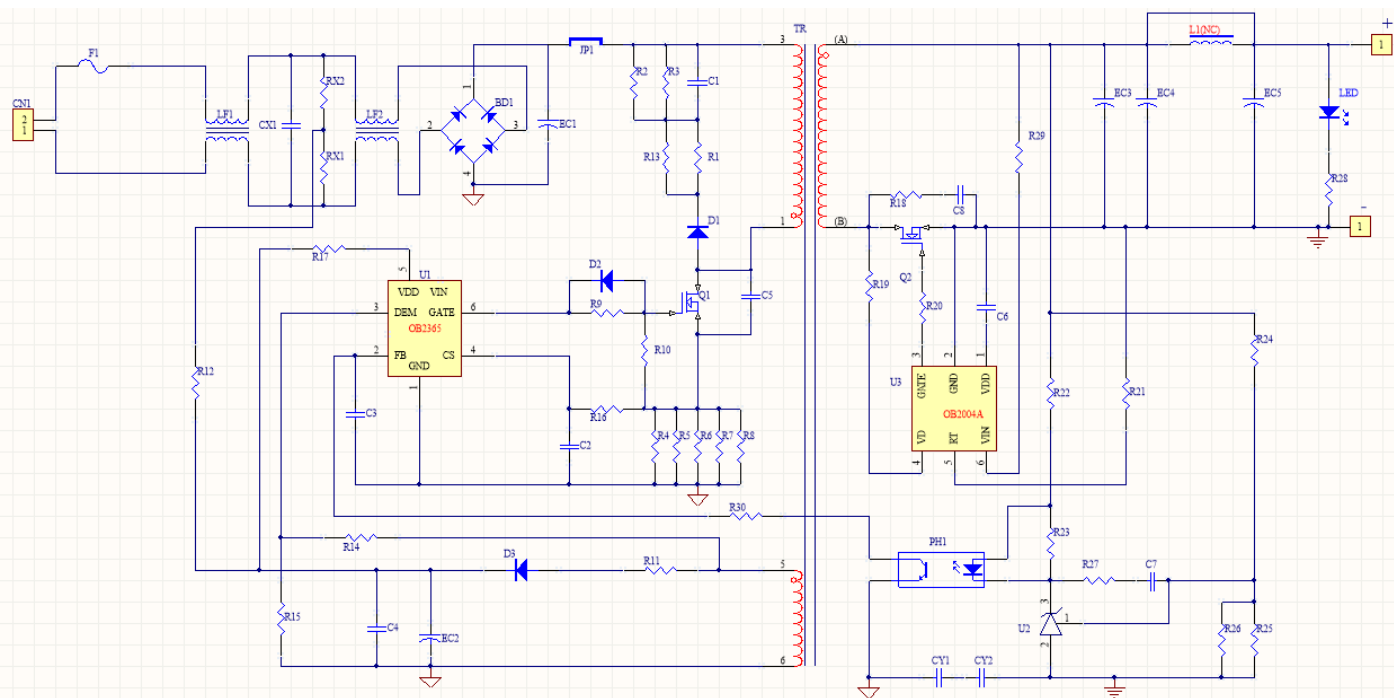
| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|---------------------------------|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

3.5 测试线路图 Test Circuit



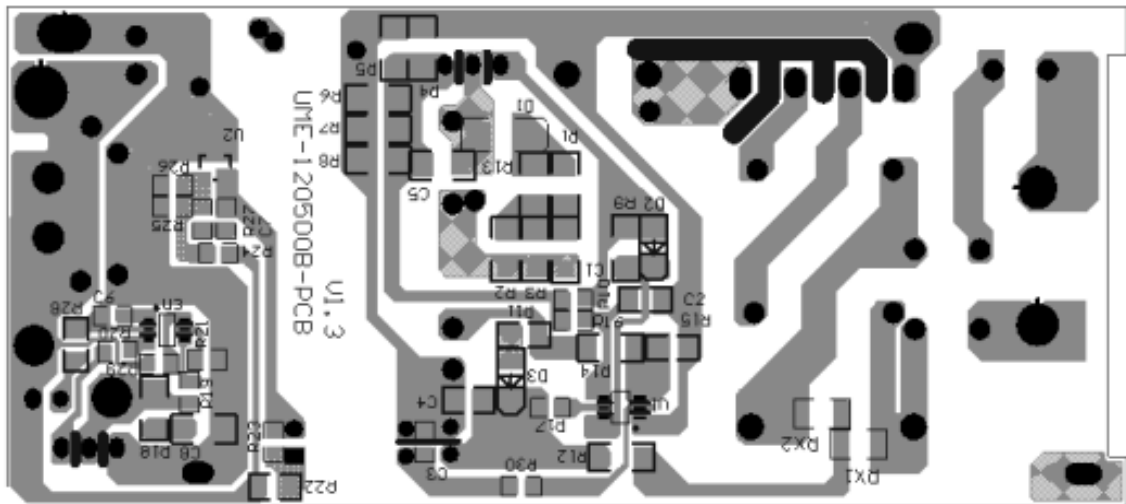
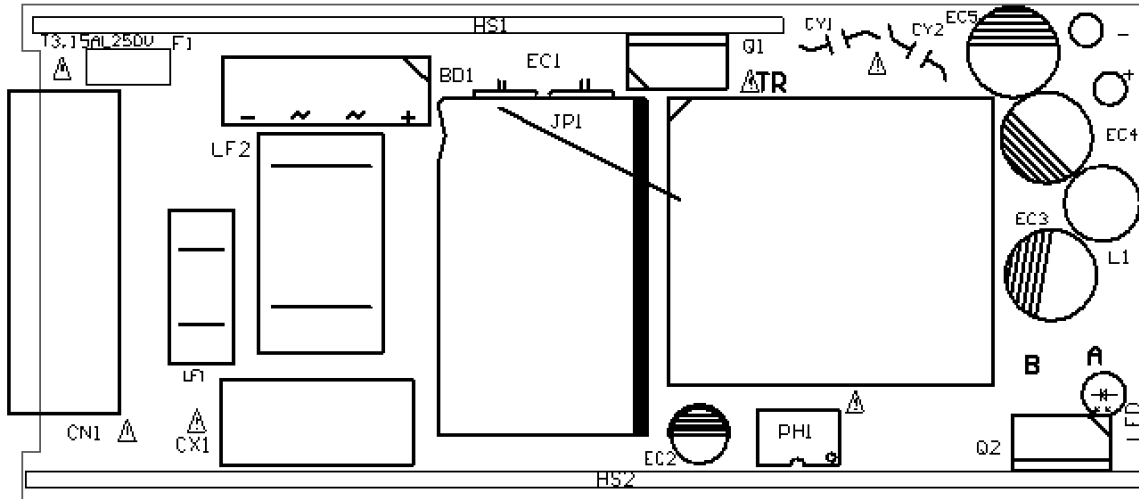
4 线路图 Schematic Diagram



| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|---------------------------------|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

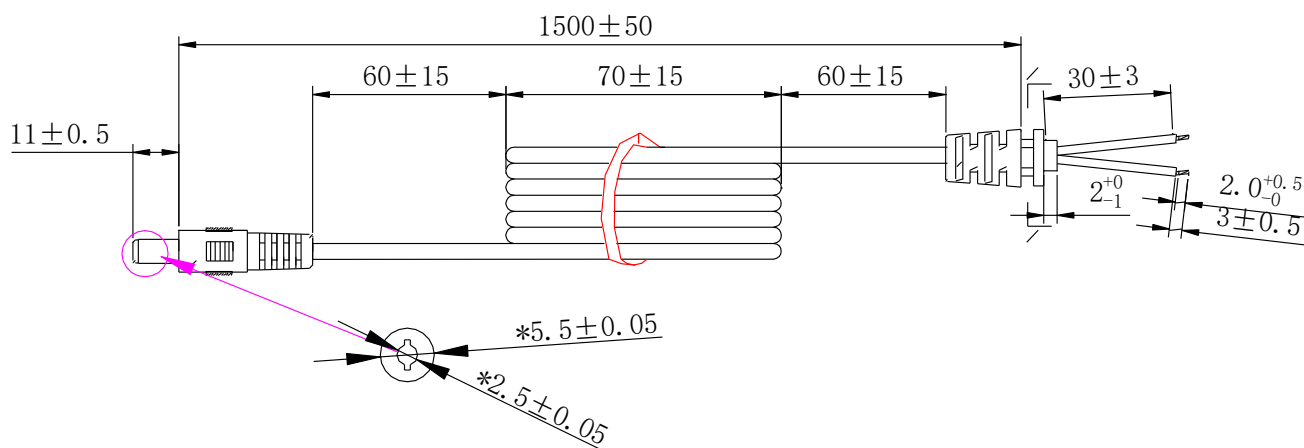
5 电路板图 P.C.B



| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

6 CORD 图 (单位 unit: mm 颜色 color: Black)



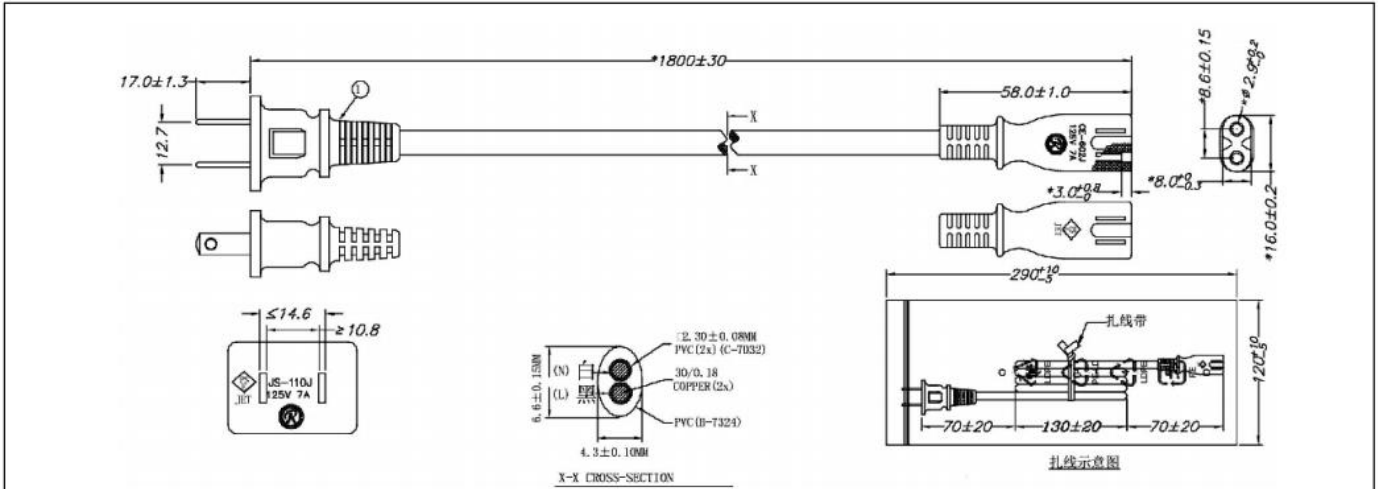
备注:

1. 导线规格: 18AWG 2464 音叉型 黑色, 芯线颜色: 红色+黑色, 导线总长 1500mm; 材质符合RoHS要求。导线按图示尺寸捆扎、测试, 导线间应开路, 对应线头线尾应短路导通, 极性连接正确;
2. 两头剥线焊锡, 剥线长度 $3\text{mm}+1/-0$ 。剥线要求如图所示, 剥丝线焊锡的直径为 1.5mm MAX 。接线方式: 红色芯线接PIN中心, 黑色芯线接外侧, PG头成型, SR-002成型; SR002尺寸为 $6.8*7.8\text{mm}$ 。
3. SR拉力测试: 吊重 $1\text{Kg}/10$ 分钟, 不可有位移, 吊重 $5\text{Kg}/1$ 分钟, 位移 2mm MAX
4. 插拔力测试: 插入力 2Kgf MAX , 拔出力 0.3Kgf MIN ; 插拔 6000MIN 次不允许有电气和机械性能的损坏, 且满足拔出力 0.1Kg MIN ;
5. 摇摆测试: 吊重 500g , 以 40次/分 作 90° 往返, 每一往返为一次, 至少 1000 次;
6. PLUG绝缘阻抗测试: $100\text{M}\Omega\text{ MIN}$ 在 500DC/分 ; PLUG接触阻抗测试: $100\text{m}\Omega\text{ MAX}$;
7. 导线, SR, PLUG非移行性依据厂内一般进行; 禁止使用VDE所禁用的物质。
8. 打*号尺寸, 为入料检查项目;

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

7 AC CORD 图



备注:

- 1、线材规格: VCTFK 0.75/2C BLK L:1800mm
- 2、导线按图示尺寸捆扎、测试。导线间应开路, 对应线头线尾应短路导通。
- 3、摇摆测试: 吊重500g, 以40次/分作60°往返, 每一往返为一次, 至少2000次。
- 4、插头、线及接口符合PSE(日本)标准。
- 5、材质符合“RoHS”要求。
- 6、测试参数: 内高压3KV, 时间1S, 外高压4KV, 时间为2S, 绝缘 5MΩmin, 时间1S
漏电流0.5mA。
- 7、头部: JS-110J 尾部: CE-602J
- 8、插拔力: 10N-50N
- 9、印字内容: R31945 RoHS <PS>E JET VCTFK 2*0.75mm² (30/0.18mm) 300V
FUND RESOURCES ELECTRIC INDUSTRY CO., LTD SHANGHANG YEAR

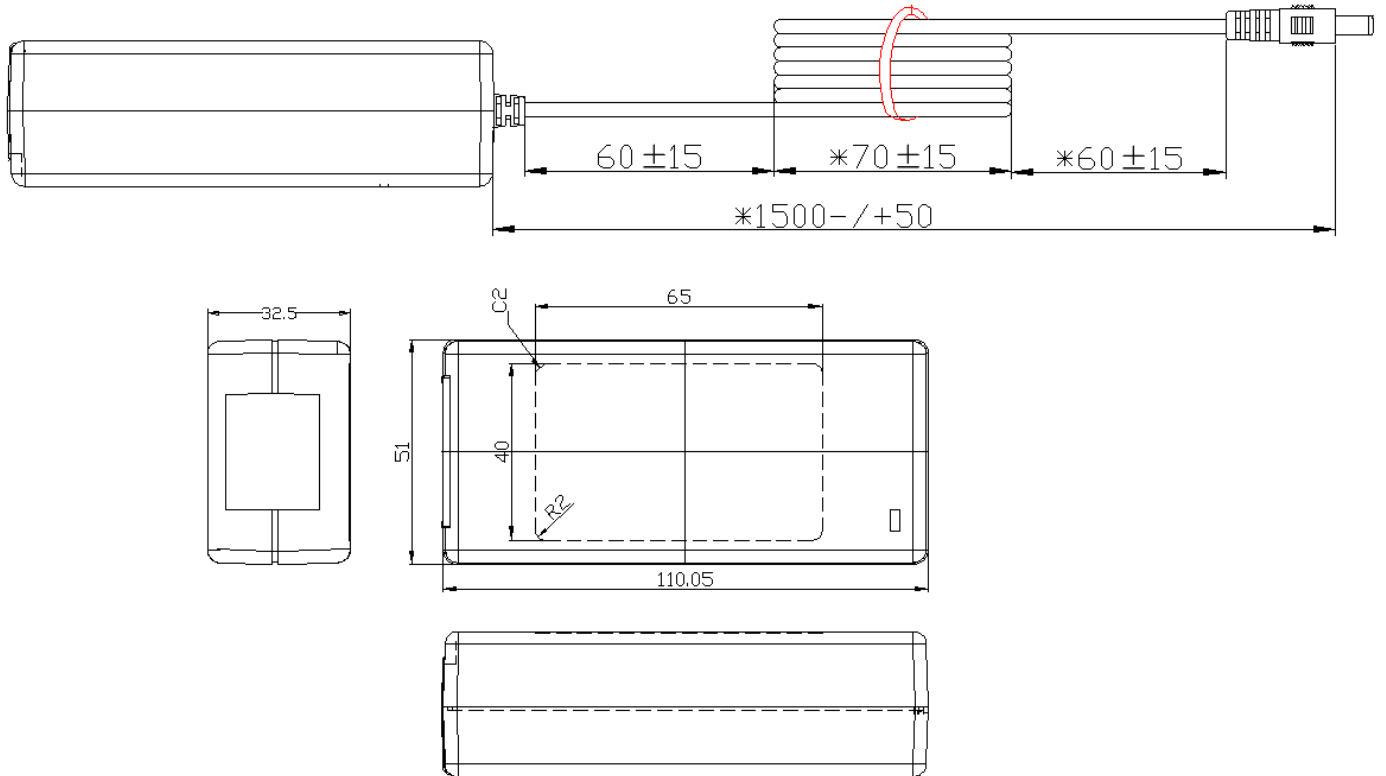
厦 门 友 盟 电 子 有 限 公 司

| 版次 | 变更内容 | 制图 | 审核 | 批准 | 单位 | mm | 图 称 | 输入电源线 | |
|----|------|-----|----|-------------|-------------|-----------|-----|--------------|----|
| | | 白美端 | | | 比例 | 2021-9-25 | 图 号 | CORD-120500M | 版本 |
| | | | 日期 | 产品型号 | LJDY0120017 | | 1.0 | | |
| | | | | SW-120500T9 | | | | | |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

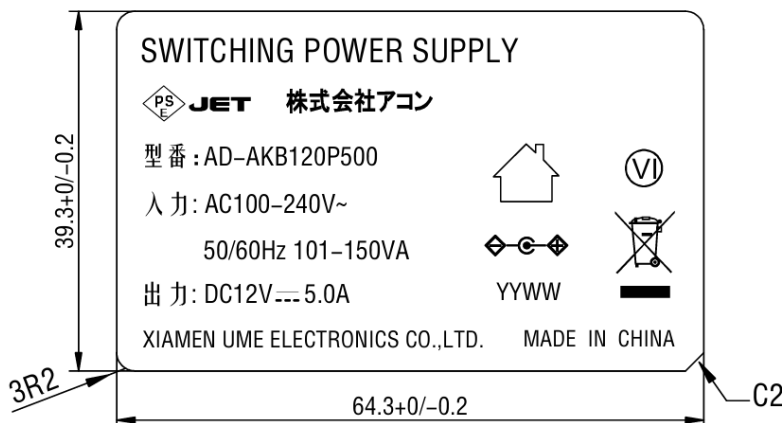
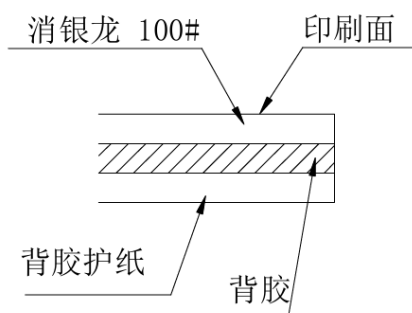
8 外观示意图 Cord and Mechanical Drawing (单位 unit: mm 颜色 color: Black)



| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

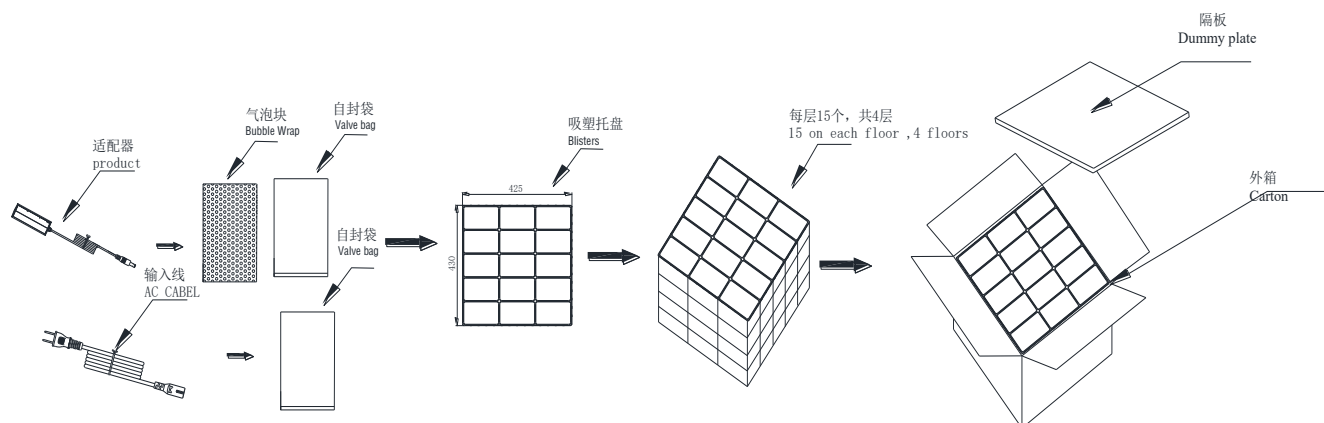
9 铭板标识 Label (Paper Nameplate)



备注:

1. 材质: 消银龙 100#(铭板基材厚度0.1mm, 材质PET)。
2. 黑底银字, 亚膜, 印刷参照ARTWORK, 印刷位置居中。
3. 背胶: 高冠DT#。
4. 密着性: 将铭板贴于实际CASE上, 在-40° C下放置48小时, 再放入75° C, 90%RH下放置48小时后, 于常温常湿下放1小时, 在铭板长度方向上贴上强力胶带(3M NO. 610 18mm宽或等价物), 以垂直方向急速拉起, 铭板不能有起泡或脱落。
5. 粘着力: 依据铭板检验标准测试。
6. Y1表示年份, WW表示周期, 年周依订单要求或实际生产日而定。
7. 字体清晰可读, 布局居中, 字体或图案与铭板边缘距离大于0.4mm。
8. 铭板字体为方正姚体。

10 包装方式 Packaging



| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

11 材料清单 BOM

| NO | ITEM | DESCRIPTION | SPECIFICATION | QTY | MANUF ACTURER |
|----|-------------|-------------|-------------------------|-----|----------------|
| 1 | PCB | PCB | UME-120500B-PCB | 1 | TXS/JT/MW/HG |
| 2 | RX1,RX2 | Chip R | 680K Ω ±5% 1206 | 2 | YAGEO/FengHua |
| 3 | R1,R13 | Chip R | 180 Ω ±5% 1206 | 2 | YAGEO/FengHua |
| 4 | R2,R3 | Chip R | 510K Ω ±5% 1206 | 2 | YAGEO/FengHua |
| 5 | R4,R5,R6,R7 | Dip R | 1.5 Ω ±1% 1206 | 4 | YAGEO/FengHua |
| 6 | R8 | Dip R | 2.0 Ω ±1% 1206 | 1 | YAGEO/FengHua |
| 7 | R9 | Dip R | 150 Ω ±5% 1206 | 1 | YAGEO/FengHua |
| 8 | R10,R28 | Chip R | 10K Ω ±5% 0805 | 2 | YAGEO/FengHua |
| 9 | R11 | Chip R | 6.8 Ω ±5% 0805 | 1 | YAGEO/FengHua |
| 10 | R12,R14 | Chip R | 100K Ω ±5% 1206 | 2 | YAGEO/FengHua |
| 11 | R15 | Chip R | 27K Ω ±5% 0805 | 1 | YAGEO/FengHua |
| 12 | R16 | Chip R | 470 Ω ±5% 0805 | 1 | YAGEO/FengHua |
| 13 | R17,R20,R29 | Chip R | 0 Ω ±5% 0805 | 3 | YAGEO/FengHua |
| 14 | R18 | Chip R | 22 Ω ±5% 1206 | 1 | YAGEO/FengHua |
| 15 | R19 | Chip R | 56 Ω ±5% 1206 | 1 | YAGEO/FengHua |
| 17 | R21 | Chip R | 30K Ω ±5% 0805 | 1 | YAGEO/FengHua |
| 18 | R22,R23 | Chip R | 1K Ω ±5% 0805 | 2 | YAGEO/FengHua |
| 19 | R24 | Chip R | 20K Ω ±1% 0805 | 1 | YAGEO/FengHua |
| 20 | R25 | Chip R | 10K Ω ±1% 0805 | 1 | YAGEO/FengHua |
| 21 | R26 | Chip C | 10.5K Ω ±1% 0805 | 1 | YAGEO/FENG HUA |
| 22 | R27 | Chip C | 1K Ω ±5% 0805 | 1 | YAGEO/FENG HUA |
| 23 | R30 | Chip C | 47 Ω ±5% 0805 | 1 | YAGEO/FENG HUA |
| 24 | C1,C8 | Chip C | 102 500V±10% 1206 X7R | 2 | YAGEO/FENG HUA |
| 25 | | Chip C | 102 630V±10% 1206 X7R | | YAGEO/FENG HUA |
| 26 | C2 | Chip C | 471 50V ±10% 0805 X7R | 1 | YAGEO/FENG HUA |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

| | | | | | |
|----|---------|------------------|---------------------------|---|----------------|
| 27 | C3 | Chip C | 222 50V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 28 | C4 | Chip C | 104 50V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 29 | C6 | Chip C | 105 16V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 30 | C7 | Chip C | 684 50V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 31 | U1 | IC | OB2365EMP SOP-23 | 1 | On Bright |
| 32 | U2 | IC | CJ431±0.5% SOT-23 | 1 | Changdian/UTC |
| 33 | U3 | IC | OB2004 DMP SOT-23 | 1 | On Bright |
| 34 | D1 | Diode | M7 SMA | 1 | JF/MIC/PANJIT |
| 35 | D2 | Diode | 1N4148W 75V 0.15A SOD-123 | 1 | JF/MIC/PANJIT |
| 36 | D3 | Diode | F7 1A/1000V/SOD-123FL | 1 | JF/MIC/PANJIT |
| 37 | Q2 | MOSFEET | KS8203CA 93A 75V TO-220 | 1 | GUANYU |
| 38 | BD2 | Rectifier Bridge | KBL406G 600V 4A P=5mm | 1 | XH/JF/PANJIT |
| 39 | LED | LED | 3Ø LED Green | 1 | Hong Qi |
| 40 | F1 | FUSE | *T3.15A/250V | 1 | XC |
| | | FUSE | *T3.15A/250V TSP | | FYS |
| 41 | HS2 | Mike pull tape | 150mm*73mm*0.05mm | 1 | YAHUA |
| 42 | HS1 | Heat Sink | 70*20*2+33*30*2 | 1 | Weiersi/LILIFA |
| 43 | HS2 | Heat Sink | 101*21*2 | 1 | Weiersi/LILIFA |
| 44 | Q2 | Insulation sheet | BUSHING-TO-220 | 1 | GHT |
| 45 | Q2 | Silicon Sheet | 13*19*0.25 mm | 1 | GHT |
| 46 | Q1,Q2 | Screw | Φ3*8 | 2 | Yunzhan/jixin |
| 47 | Q1,Q2 | Nut | Φ3mm | 2 | Yunzhan/jixin |
| 48 | CX1 | X Cap | 0.33uF 250V±20% P=15 | 1 | STE |
| 49 | LF1 | Inductance | 0.6mH MIN 0.5 UEW+TLW | 1 | VS/NH |
| 50 | LF2 | Inductance | 20mH MIN 0.5 UEW+TLW | 1 | VS/NH |
| 51 | CN1 | AC INLET | ST-A03-005KT10(N)2.0 | 1 | Chenli/BEJ |
| 52 | CY1,CY2 | Y cap | Y2 472 250V±20% P=7.5 | 2 | STE/HJ |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|

| | | | | | |
|--|-------------|-------------|---------------|------------------|----------------------|
| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24012501/A1 |
| 品名 Product | 开关电源 SPS | 型号 Model | AD-AKB120P500 | 日期 Date | 2025-08-05 |

| | | | | | |
|----|---------|--------------|---|---------|---------------------|
| 53 | TR | TRANSFMOR | TRPQ2620-120500B | 1 | HXH/ ZY |
| 54 | PH1 | Photo | EL-817MB DIP-4 P=10.2 | 1 | Everlight |
| | | | BPC-817MB DIP-4 P=10.2 | | Bright Led |
| 55 | Q1 | MOSFEET | MDF10N60TH 600V 10A TO-220F | 1 | Magnachip/Toshiba |
| | | MOSFEET | HF10N65 650V 10A TO-220F | | HF/JF |
| 56 | EC1 | E cap | 120uF 400V±20% 105℃ Φ18*30mm(BXW) | 1 | Rubycon |
| 57 | EC2 | E cap | 10uF 50V±20% 105℃ Φ5*11mm(YXF) | 1 | Rubycon |
| 58 | EC3,EC5 | E cap | 560uF 16V±20% 105℃ Φ8*11mm(PZ) | 2 | AISHI |
| 59 | EC4 | E cap | 1000uF 16V±20% 105℃ Φ8*20mm(ZLH) | 1 | Rubycon |
| 60 | JP1 | Jump line | Φ0.5mm | 25 | UME |
| 61 | CASE | Thermal film | 70*45*2mm | 1 | GAOKU |
| 62 | TR | Thermal film | 15*25*3mm | 1 | GAOKU |
| 63 | | Light Pipe | 4.52*2.01*2.5+Φ6*Φ4.52 d=9.04mm | 1 | JinTonZhou |
| 64 | | DC Cable 1 | Φ2.5*5.5*11 18AWG 2464 L:1500mm BK | 1 | DPK/GC |
| 65 | | AC Cable | <PS>E 2*0.75 mm ² VCTFK L=1800mm Black, Lead-free soldering | 1 | KLG/JR |
| 66 | | Case | UME 6005A BK | 1 | JLF/YGE |
| 67 | | Case | UME 6005B BK | 1 | JLF/YGE |
| 68 | | Bubble Wrap | 195*115 | 1 | Xincheng |
| 69 | | Nameplate | NAP-120500M6-PSE | 1 | Jingxing |
| 70 | | Valve bag | 140*210*0.05mm | 1 | Xincheng |
| 71 | | Valve bag | 95*155*0.05mm | 1 | Xincheng |
| 72 | | CARTON | 470*380*255mm | 0.01667 | XinRuicheng/ FuXing |
| 73 | | LINER | 465*365*3mm | 0.01667 | XinRuicheng/ FuXing |
| 74 | | Blisters | 460*370*65mm | 0.06667 | YUXIANG |
| 75 | | White glue | AP-688 | 1.2 | JX |
| 76 | | Solder Bar | Pb free | 0.4 | YUNNANXIYE |
| 77 | | Solder wire | Pb free | 0.2 | YUNNANXIYE |

| | | | | | |
|--------------|----|-----------|----|---------------|-----|
| 批准 Approval: | ZL | 审核 Check: | ZL | 制表 Execution: | BMD |
|--------------|----|-----------|----|---------------|-----|