

# 宁波铭川电子科技有限公司

Ningbo MingChuan Technology Electronics Co.,Ltd

## 器件规格书

### SPECIFICATION FOR APPROVAL

|                         |                |
|-------------------------|----------------|
| 客户名称:<br>CUSTOMER:      | M002           |
| 客户料号:<br>Customer P/N:  | 900uH          |
| 产品型号<br>Product's P/N   | POT18变压器       |
| 铭川料号:<br>MINGCHUAN P/N: | MC-TPOT18-0225 |
| 页码<br>Page              | 6              |
| 版本<br>Rev               | A0             |
| 日期<br>Date              | 2024/12/02     |

★敬请客户仔细确认此规格书，确认无误后请签字和回签，如需修正请备注，下单之前须回签，谢谢合作★

| 供应商确认栏/SUPPLIER APPROVED |     | 客户承认栏/CUSTOMER APPROVED |  |
|--------------------------|-----|-------------------------|--|
| 拟制 / DRAWN BY            | 李志业 | 确认 / CONFIRM BY         |  |
| 审核 / CHECKED BY          | 蒋兵  | 审核 / CHECKED BY         |  |
| 批准 / APPROVED BY         | 朱贤辉 | 批准 / APPROVED BY        |  |
| 签章/ SIGNATURES:          |     | 签章/ SIGNATURES:         |  |

宁波铭川电子科技有限公司

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HaiShu District,NingBo,ZheJiang

## SPECIFICATION FOR APPROVAL

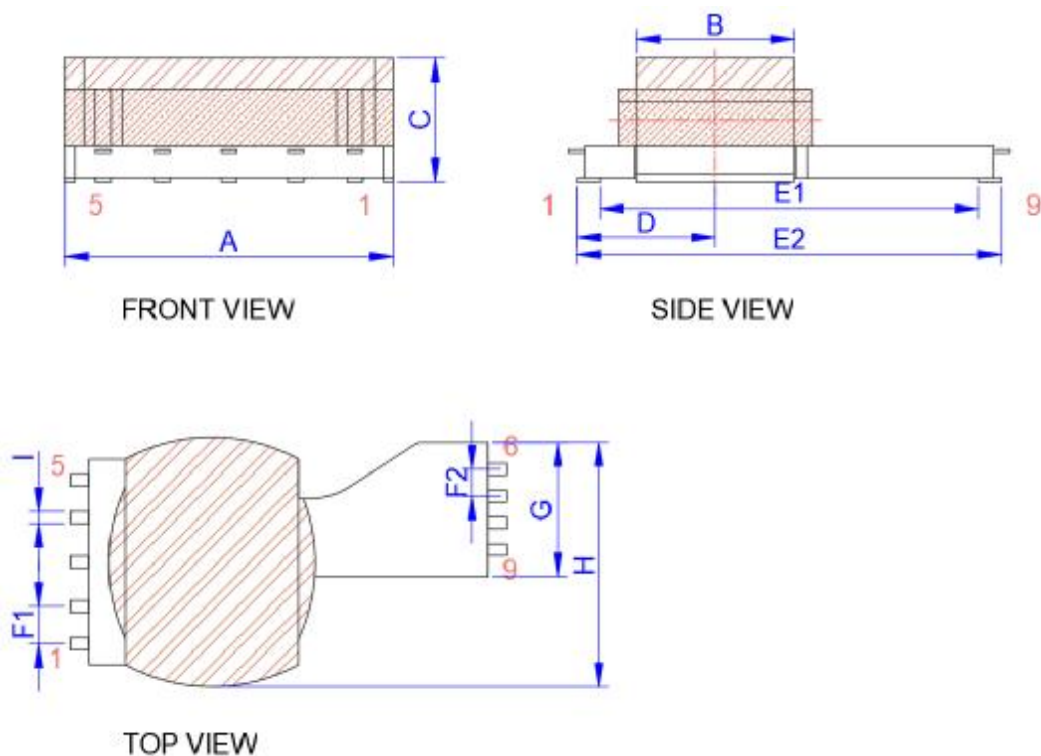
## 变更履历表/MODIFY LIST

[illegible]

|       |                |          |            |
|-------|----------------|----------|------------|
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# SPECIFICATION FOR APPROVAL

## 1、封装尺寸Outer Dimension (Unit:mm)



| Unit:mm |           |
|---------|-----------|
| A       | 16.0±0.5  |
| B       | 11.85±0.5 |
| C       | 7.5MAX    |
| D       | 10.5REF   |
| E1      | 23.4±0.5  |
| E2      | 27.1±0.5  |
| F1      | 3.0±0.3   |
| F2      | 2.0±0.3   |
| G       | 9.0±0.5   |
| H       | 18.5MAX   |
| I       | 0.7±0.1   |

工艺要求:

- 1、所有针脚平贴度小于0.15mm;
- 2、PIN1脚对应位置打点标示(可在顶部标签上标示);
- 3、磁芯中柱开气隙, 放于顶部, 磁芯与磁芯之间点胶固定(磁芯固定胶带烤胶后去除);
- 4、产品不含浸处理;
- 5、产品如图需用高温胶带背胶绝缘, 需超出磁芯顶部周边3-5mm,超出部分往底部方向反折, 然后沿线包方向包2TS胶带固定;
- 6、标签贴或喷印在产品上, 字底朝PIN6-9;

MC-TPOT18-0225

YYWW

备注: YY表示生产年份, WW表示生产周期;

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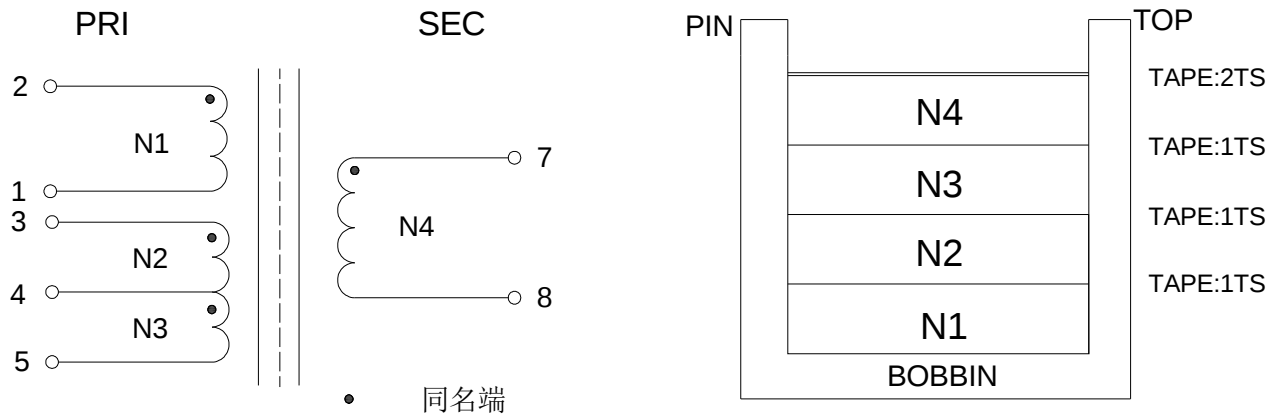
2、绕线数据表Winding Data

| 绕组编号<br>Coil No. | 同名端<br>dotted<br>terminal |              | 线材<br>Wire                         | 圈数<br>Turns | 胶带<br>Tape | 套管<br>TUBE  |              | 绕线方式<br>way of winding |
|------------------|---------------------------|--------------|------------------------------------|-------------|------------|-------------|--------------|------------------------|
|                  | 开始<br>Start               | 结束<br>Finish |                                    |             |            | 开始<br>Start | 结束<br>Finish |                        |
| N1               | 2                         | 1            | UEWH $\varnothing 0.15*1P$         | 36          | 1          | /           | /            | 密绕                     |
| N2               | 3                         | 4            | UEWH $\varnothing 0.15*1P$         | 2           | 1          | /           | /            | 密绕                     |
| N3               | 4                         | 5            | UEWH $\varnothing 0.15*1P$         | 2           | 1          | /           | /            | 密绕                     |
| N4               | 7                         | 8            | MIW-H 绝缘线<br>$\varnothing 0.12*1P$ | 5           | 2          | /           | /            | 密绕                     |

备注:

1、PIN端朝机台内，绕线轴顺时针转动

(1) 电气原理图/CIRCUIT DIAGRAM:



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## 3、电气性能测试Electrical test T=25℃

### ELECTRICAL CHARACTERISTICS: TEMPERATURE:25℃

| 测试项目<br>TEST ITEM                | 测试条件<br>TEST CONDITION          | 标准<br>STANDARD                                                                | 测试仪器<br>Test instrument |
|----------------------------------|---------------------------------|-------------------------------------------------------------------------------|-------------------------|
| 电感<br>INDUCTANCE                 | 100KHz/1V                       | L1-2: 900uH±10%                                                               | TH2829AX SER(25℃)       |
| 漏感<br>LEBKAGE<br>INDUCTANCE      | 100KHz/1V<br>SHORT SEC PIN      | L 1-2: 30uH MAX                                                               | TH2829AX SER(25℃)       |
| 直流电阻<br>DCR                      | 25℃                             | DCR(1-2): 1.26Ω MAX<br>DCR(3-5): 100mΩ MAX<br>DCR(7-8): 240mΩ MAX             | U2516B(25℃)             |
| 耐压<br>HI-POT                     | PRI-SEC<br>SEC-CORE<br>N1-N2-N3 | AC 3.5KV,6S 50/60Hz/1mA<br>AC 3.5KV,6S 50/60Hz/1mA<br>AC 1.0KV,6S 50/60Hz/1mA | TH9310                  |
| 绝缘电阻<br>INSULATION<br>RESISTANCE | PRI-SEC<br>PRI/SEC-CORE         | DC 500V 100MΩ MIN                                                             | TH9310                  |
| 极性/匝比<br>Polarity/TR             | 20KHz 1V                        | N1:N2:N3:N4=36:2:2:5                                                          | TH2829AX SER(25℃)       |

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| 4、材料明细Material Data                |                         |                      |                                       |                                                     |                                        |      |
|------------------------------------|-------------------------|----------------------|---------------------------------------|-----------------------------------------------------|----------------------------------------|------|
| 材料名称<br>name of<br>the<br>material | 规格<br>specificatio<br>n | 材质<br>texture        | 技术要求<br>technical<br>requirement<br>s | 制造商<br>manufacturer                                 | UL认证号<br>UL<br>authentica<br>tion code | ROHS |
| 磁芯<br>CORE                         | POT18                   | KF9                  |                                       | LIANFENG                                            | /                                      | Y    |
| 骨架<br>BOBBIN                       | POT18                   | T200HF               | UL 94V-0<br>150℃                      | CHANG CHUN PLASTICS CO LTD                          | E59481                                 | Y    |
|                                    |                         | PM9630               | UL 94V-0<br>150℃                      | SUMITOMO BAKELITE CO LTD                            | E41429                                 | Y    |
| 绝缘线<br>WIRE                        | /                       | MIW-F *              | 155℃                                  | Huizhou Huaying Electronic<br>Technology Co Ltd     | E470559<br>VDE:<br>40047994            | Y    |
|                                    |                         | TIW-F                |                                       | Anhui Yingshuo Electronics Technology<br>Co Ltd     | E475710<br>VDE:<br>40050723            | Y    |
| 漆包线<br>WIRE                        | /                       | PEWH/U<br>MW 30-C    | 180℃                                  | PACIFIC ELECTRIC WIRE & CABLE<br>(SHENZHEN) CO LTD  | E201757                                | Y    |
|                                    |                         | QZY-x/180<br>MW 30-C |                                       | NINGBO JINTIAN NEW MATERIAL CO<br>LTD               | E227047                                | Y    |
| 胶带<br>TAPE                         | /                       | HKT                  | 200℃                                  | SHEN ZHEN XINHUAHUI ELECTRONIC<br>MATERIALS CO LTD  | E328315                                | Y    |
|                                    | /                       | PF*(b)(g)            | 180℃                                  | JING JIANG YAHUA PRESSURE<br>SENSITIVE GLUE CO.,LTD | E165111                                | Y    |
| 胶<br>EPOXY                         | H907-HF<br>H907-HF-Z    | 环氧树脂胶                | 130℃                                  | HUACHUANG                                           | E304477                                | Y    |
|                                    | E-500 (XX)              | 环氧树脂胶                | 130℃                                  | DONGGUAN EATTO ELECTRONIC<br>MATERIAL CO LTD        | E218090                                | Y    |
| 胶带<br>TAPE                         | /                       | HKT                  | 200℃                                  | SHEN ZHEN XINHUAHUI ELECTRONIC<br>MATERIALS CO LTD  | E328315                                | Y    |
|                                    | /                       | PF*(d)(g)            | 180℃                                  | JING JIANG YAHUA PRESSURE<br>SENSITIVE GLUE CO.,LTD | E165111                                | Y    |
|                                    |                         |                      |                                       |                                                     |                                        |      |
|                                    |                         |                      |                                       |                                                     |                                        |      |

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