

【*】[®] 慈溪市东威电子有限公司
CIXI CITY DONGWEI ELECTRONICS CO., LTD

SPECIFICATION

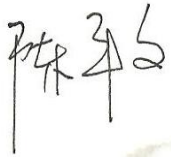


客 户
 CUSTOMER: _____

品 名
 TITLE: 拨码开关 (SMT SWITCH)

型 号
 PART ON.: HAD-10HW-R

客 户 型 号
 CUSTOMER PART NO.: _____

日 期
 DATE: _____

| | | | |
|---|-------------------|--|---|
| 制 样 DESIGNED BY | 审 核 CHECKED BY | 批 准 APPROVED BY | 送样印 SENDING PRINT |
|  | Alice |  |  |
| 客 户 确 认 CUSTOMER APPROVAL | | 承 认 印 APPD PRINT | |
| | | | |

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制品规格 SPECIFICATIONS OF PRODUCTS

| | | | | | |
|----------------------|--------------|---------------------|-----------|--------------------|-----------------|
| 文件编号 DOCUMENT NO. | DW-SP-012-10 | 发行日期 ISSUED DATE | 2012-4-17 | 版本: 2.0 VERSION | 页次: 2/4 PAGE |
|----------------------|--------------|---------------------|-----------|--------------------|-----------------|

1. 材料 MATERIALS

| | | |
|--|---|--|
| | 上盖: 工程塑料, 黑色 COVER: Engineering Plastics, Black | 底座: 工程塑料, 黑色 BASE: Engineering Plastics, Black |
| | 拨键: 工程塑料, 白色或橙色 KEY: Engineering Plastics, White or orange | 端子: 铜合金, 镀金或者镀锡 TERMINAL: Alloy Copper, Plating Gold or Tin |

2. 产品命名 PRODUCT NAMING

| | |
|---|---|
| HA X — X X X X X X | R为环保型, 0为普通型 R: rohs 0: common |
| 直插式引脚尖端的行距 A: 8.20mm B: 7.62mm C: 内弯 | Row space of Dip item: A: 8.20mm B: 7.62mm C: J lead |
| 拨键的颜色: W白色 0橙色 H混合色 | Color of key: W:white 0:orange H:mixed color |
| 拨键形式:H高拨键 L低拨键 | Form of the key:H:high key L:low key |
| 产品位数 | Position of Product |
| 引脚形式:M直插式 D贴片式 | Type:M:Dip D:SMT |
| HA系列 | HA Series |

3. 产品位数代号 NUMBER OF POSITIONS

| | | | | | | | | | | |
|-----------|-----------|-------------|------------|------------|-----------|-------------|-------------|------------|-----------|---------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 12 |
| 一位 one | 二位 two | 三位 three | 四位 four | 五位 five | 六位 six | 七位 seven | 八位 eight | 九位 nine | 十位 ten | 十二位 twelve |

4. 电气性能 ELECTRICAL CHARACTERISTICS


| 项目 ITEM | | 性能 PERFORMANCE |
|---------|--|---------------------------------|
| 4.1 | 接触电阻(初始值) CONTACT RESISTANCE (INITIAL): | ≤50mΩ |
| 4.2 | 接触电阻(测试后) (AFTER LIFE TEST): | ≤100mΩ |
| 4.3 | 开关容量(开关常切换) CONTACT RATING (CONTACT RATING): | 25mA 24VDC |
| 4.4 | 开关容量(开关不常切换) CONTACT RATING (NON-CONTACT RATING): | 100mA |
| 4.5 | 绝缘电阻 INSULATION RESISTANCE: | ≥100MΩ .Min. at 500VDC |
| 4.6 | 耐压强度 DIELECTRIC STRENGTH: | 500VAC Min. for 60 seconds. 1mA |
| 4.7 | 极间电容 CAPACITANCE BETWEEN ADJACENT SWITCHES: | ≤5PF |

5. 机械特性 MECHANICAL

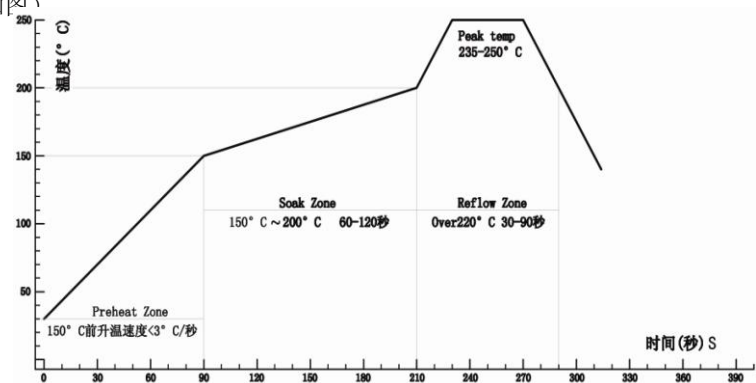
| 项目 ITEM | | 性能 PERFORMANCE |
|---------|--------------------------|-----------------|
| 5.1 | 操作力 OPERATION FORCE: | ≤8N |
| 5.2 | 机械寿命 MECHANICAL LIFE: | 2000 operations |



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| 项目 ITME | | | | | 性能 PERFORMANCE |
| 5.3 | 使用温度 OPERATING TEMPERATURE: |  | | | -20°C ~ +70°C |
| 5.4 | 储存温度 STORAGE TEMPERATURE: | | | | -40°C ~ +85°C |
| 5.5 | 可焊性 SOLDERABILITY: | | | | After flux 230±5°C for 5±0.5seconds, 95%coverage |
| 5.6 | 耐焊接热 RESISTANCE TO SOLDERING HEAT: | | | | 260±5°C for 5±1seconds |

6. 焊接和清洗 SOLDERING AND CLEANING PROCESSES

| | | |
|-----|---|---|
| 6.1 | 在所有操作过程中, 请确保开关在OFF位置 | Keep all switch contacts in their "OFF" position for all operations |
| 6.2 | 波焊: 推荐焊接焊锡温度为500° F(260°C), 最多5秒 | WAVE SOLDERING: Recommended solder temperature at 500° F(260°C) max.5 seconds |
| 6.3 | 手焊: 使用30W烙铁控制温度在350°C, 焊接时间大约5秒钟 | HAND SOLDERING: Use a soldering iron of 30 Watts controlled at 350°C approximately 5 seconds. While |
| 6.4 | 回流焊: (SMT型) 回流炉最高温度为250°C, 温度为250°C时, 最长不超过10秒 (如图) | Reflow Soldering Profile: (reference)  |

7. 产品包装 PACKING

| 7.1 | 所有拨码产品皆以IC管形式包装 HA系列包装资料 贴片型可采用盘带包装, 每卷为1000只 | All Code Switches are shipped in standard IC tube Packing of HA SMT type can be shipper in Tape & Reel Packing, The quantity is 1000PCS/Reel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|---|------------------|-------------------|---------------------------|------------------|----------------|----|---|--------|----------|---------------------------|----|---|-------|---------|----|---|-------|---------|----|---|-------|---------|----|---|-------|---------|----|---|-------|---------|----|---|-------|---------|----|---|-------|---------|----|---|-------|---------|----|----|-------|---------|----|----|-------|---------|
| | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>系列 SERIES</th> <th>开关位数 NO.of POS</th> <th>每管数量 PER TUBE</th> <th>每小箱数量 PER BOX</th> <th>外箱包装 PERCTN</th> </tr> </thead> <tbody> <tr><td>HA</td><td>1</td><td>130PCS</td><td>13000PCS</td><td rowspan="12">6 BOXES 55.5×30.5×40CM</td></tr> <tr><td>HA</td><td>2</td><td>77PCS</td><td>7700PCS</td></tr> <tr><td>HA</td><td>3</td><td>55PCS</td><td>5500PCS</td></tr> <tr><td>HA</td><td>4</td><td>42PCS</td><td>4200PCS</td></tr> <tr><td>HA</td><td>5</td><td>34PCS</td><td>3400PCS</td></tr> <tr><td>HA</td><td>6</td><td>29PCS</td><td>2900PCS</td></tr> <tr><td>HA</td><td>7</td><td>25PCS</td><td>2500PCS</td></tr> <tr><td>HA</td><td>8</td><td>22PCS</td><td>2200PCS</td></tr> <tr><td>HA</td><td>9</td><td>20PCS</td><td>2000PCS</td></tr> <tr><td>HA</td><td>10</td><td>18PCS</td><td>1800PCS</td></tr> <tr><td>HA</td><td>12</td><td>15PCS</td><td>1500PCS</td></tr> </tbody> </table> | | 系列 SERIES | 开关位数 NO.of POS | 每管数量 PER TUBE | 每小箱数量 PER BOX | 外箱包装 PERCTN | HA | 1 | 130PCS | 13000PCS | 6 BOXES 55.5×30.5×40CM | HA | 2 | 77PCS | 7700PCS | HA | 3 | 55PCS | 5500PCS | HA | 4 | 42PCS | 4200PCS | HA | 5 | 34PCS | 3400PCS | HA | 6 | 29PCS | 2900PCS | HA | 7 | 25PCS | 2500PCS | HA | 8 | 22PCS | 2200PCS | HA | 9 | 20PCS | 2000PCS | HA | 10 | 18PCS | 1800PCS | HA | 12 | 15PCS | 1500PCS |
| | 系列 SERIES | 开关位数 NO.of POS | 每管数量 PER TUBE | 每小箱数量 PER BOX | 外箱包装 PERCTN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 1 | 130PCS | 13000PCS | 6 BOXES 55.5×30.5×40CM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 2 | 77PCS | 7700PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 3 | 55PCS | 5500PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 4 | 42PCS | 4200PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 5 | 34PCS | 3400PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 6 | 29PCS | 2900PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 7 | 25PCS | 2500PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 8 | 22PCS | 2200PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HA | 9 | 20PCS | 2000PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA | 10 | 18PCS | 1800PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA | 12 | 15PCS | 1500PCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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8. 产品外形及装配图纸 SHAPE AND ASSEMBLY SIZE

DIMENSION A (General tolerance: ± 0.3)

| POSITIONS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|-----------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | 3.64 | 6.18 | 8.72 | 11.26 | 13.80 | 16.34 | 18.88 | 21.42 | 23.96 | 26.50 | 31.58 |

| ITEM | DES | MATERIALS | TREATMENT |
|------|----------|----------------------|--------------|
| 1 | COVER | ENGINEERING PLASTICS | BLACK |
| 2 | BASE | ENGINEERING PLASTICS | BLACK |
| 3 | KEY | ENGINEERING PLASTICS | WHITE |
| 4 | TERMINAL | ALLOY COPPER | PLATING GOLD |

HAD DIMENSIONS Unit:mm

