

# 【\*】<sup>®</sup> 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 (DIP SWITCH)

型 号

PART ON.:

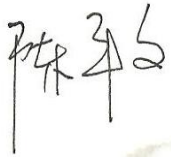



VPG/S-03H-R

客 户 型 号

CUSTOMER PART NO. : \_\_\_\_\_

日 期

DATE: \_\_\_\_\_

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

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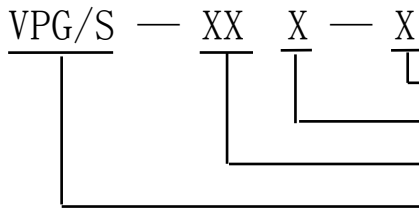
制品规格 SPECIFICATIONS OF PRODUCTS

|                      |              |                     |           |                    |                 |
|----------------------|--------------|---------------------|-----------|--------------------|-----------------|
| 文件编号<br>DOCUMENT NO. | DW-SP-014-03 | 发行日期<br>ISSUED DATE | 2012-4-17 | 版本: 2.0<br>VERSION | 页次: 2/3<br>PAGE |
|----------------------|--------------|---------------------|-----------|--------------------|-----------------|

1. 材料 MATERIALS

|  |                    |   |
|--|--------------------|---|
|  | 上盖: 工程塑料, 红色、蓝色、黑色 | COVER: Engineering Plastics, Red、Blue、Black |
|  | 底座: 工程塑料, 黑色       | BASE: Engineering Plastics, Black           |
|  | 拨键: 工程塑料, 白色       | KEY: Engineering Plastics, White            |
|  | 端子: 铜合金, 镀金或者镀银    | TERMINAL: Alloy Copper, Plating Gold or Ag  |

2. 产品命名 PRODUCT NAMING



R为环保型 0为普通型 R:rohs 0:common  
 外壳颜色:H:为红色 L:为蓝色 B:为黑色 Color: H:red L:blue B:black  
 产品位数 Position of product  
 V系列 V series  
 XG/S=DG/S:拨键方式为平拨 XG/S=DG/S:key is flat  
 XG/S=PG/S:拨键方式为侧拨 XG/S=PG/S:key is side

3. 产品位数代号 NUMBER OF POSITIONS

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

4. 电气性能 ELECTRICAL CHARACTERISTICS

| 项目 ITME |  | 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     | 极际电容 CAPACITANCE BETWEEN ADJACENT SWITCHES:        | ≤5PF                            |



5. 机械特性 MECHANICAL

| 项目 ITME |                             | 性能 PERFORMANCE                                  |
|---------|-----------------------------|---|
| 5.1     | 操作力 OPERATION FORCE:        | ≤8N   |
| 5.2     | 机械寿命 MECHANICAL LIFE:       | 2000 operations                                 |
| 5.3     | 使用温度 OPERATING TEMPERATURE: | -20℃ ~ +70℃                                     |
| 5.4     | 储存温度 STORAGE TEMPERATURE:   | -40℃ ~ +85℃                                     |
| 5.5     | 可焊性 SOLDERABILITY:          | After flux 230±5℃for 5 ±0.5seconds, 95%coverage |



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| 项目 ITME              |              |                               |                        | 性能 PERFORMANCE     |                 |
| 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 |

7. 产品包装 PACKING

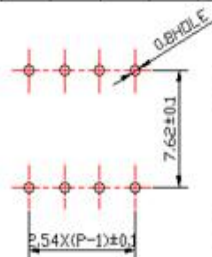
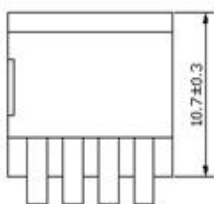
|       |                                |   |                    |                  |                  |
|-------|--------------------------------|---|--------------------|------------------|------------------|
| 7.1   | 所有拨码产品皆以IC管形式包装<br>VPG/S系列包装资料 | All Code Switches are shipped in standard IC tube<br>Packing of VPG/S |                    |                  |                  |
|       |                                | 系列<br>SERIES  | 开关位数<br>NO. of POS | 每管数量<br>PER TUBE | 每小箱数量<br>PER BOX |
|       |                                | VPG/S   | 2                  | 72PCS            | 6480PCS          |
|       |                                | VPG/S   | 3                  | 52PCS            | 4680PCS          |
|       |                                | VPG/S   | 4                  | 40PCS            | 3600PCS          |
|       |                                | VPG/S   | 5                  | 33PCS            | 2970PCS          |
|       |                                | VPG/S   | 6                  | 28PCS            | 2520PCS          |
|       |                                | VPG/S   | 7                  | 24PCS            | 2160PCS          |
|       |                                | VPG/S   | 8                  | 21PCS            | 1890PCS          |
|       |                                | VPG/S   | 9                  | 19PCS            | 1710PCS          |
| VPG/S | 10                             | 17PCS   | 1530PCS            |                  |                  |
| VPG/S | 12                             | 14PCS   | 1260PCS            |                  |                  |
|       |                                | 6 BOXES<br>55.5×30.5×40CM   |                    |                  |                  |

8. 产品外形及装配图纸 SHAPE AND ASSEMBLY SIZE

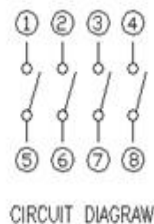
DIMENSION A (General tolerance: ±0.3)

| POSITIONS | 2    | 3    | 4    | 5     | 6     | 7     | 8     | 9    | 10    | 12    |
|-----------|------|------|------|-------|-------|-------|-------|------|-------|-------|
| A         | 6.62 | 9.16 | 11.7 | 14.24 | 16.78 | 19.32 | 21.86 | 24.4 | 26.94 | 32.02 |

VPG DIMENSIONS Unit:mm



PCB LAYOUT



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

