



**Feature -**

- small size
- bi-color LED illuminated available
- long electrical life cycles

**Application -**

- consumer products
- computer products
- instrumentation
- communication equipments

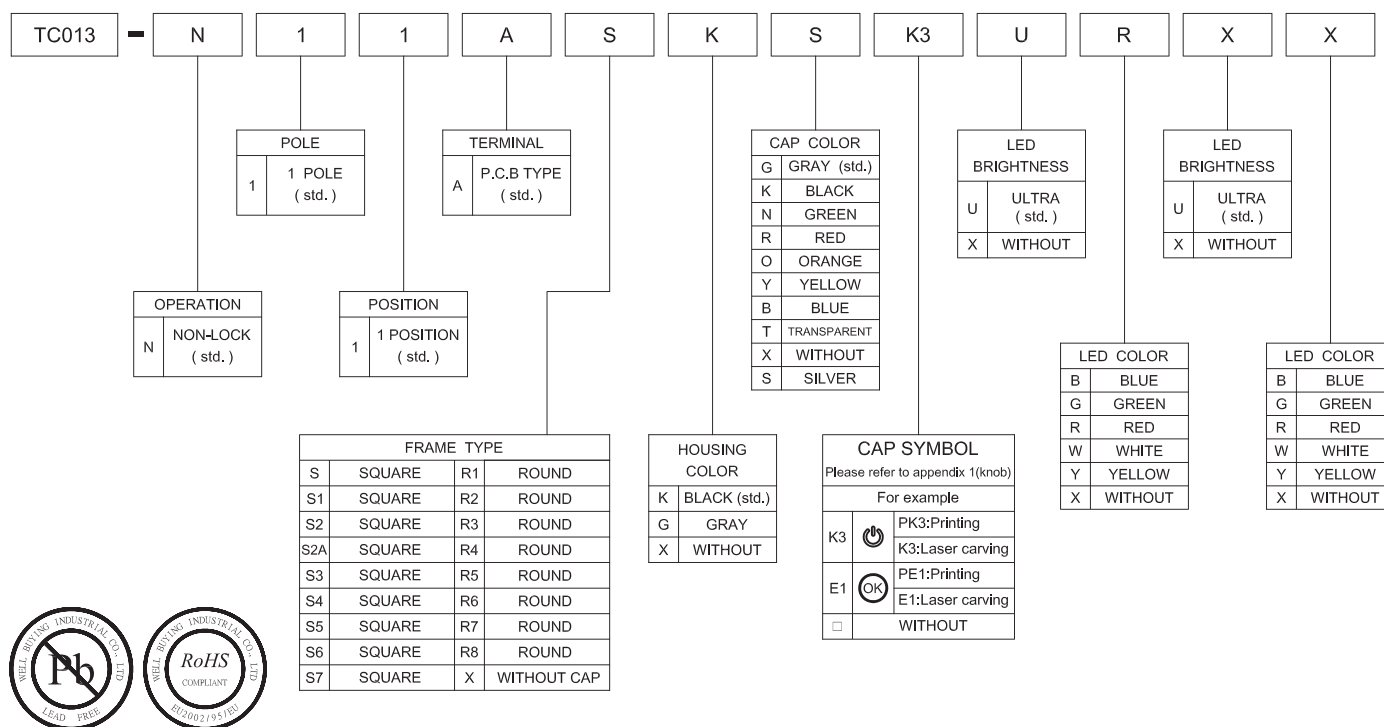
► **SPECIFICATIONS**

| SWITCH SPECIFICATIONS       |                                                              |
|-----------------------------|--------------------------------------------------------------|
| POLE - POSITION             | 1P1T , with LED                                              |
| CONTACT RATING              | 12 V DC , 50 mA                                              |
| CONTACT RESISTANCE          | 100 mΩ MAX. 1.5 V DC ; 100 mA ,<br>by Method of Voltage DROP |
| INSULATION RESISTANCE       | 100 MΩ MIN. 500 V DC                                         |
| DIELECTRIC STRENGTH         | Breakdown is not Allowable ;<br>500 V AC for 1 Minute        |
| OPERATING FORCE             | 180 ± 50 gf                                                  |
| OPERATING LIFE              | 500,000 cycles                                               |
| OPERATING TEMPERATURE RANGE | -20°C ~ 70°C                                                 |
| TOTAL TRAVEL                | 0.2 ± 0.1 mm                                                 |

| LED SPECIFICATIONS                                                                                                                                  |                                                                                     |      |                   |         |         |                  |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------------------|---------|---------|------------------|---------|
|  <div>ATTENTION<br/>LEDs are Electrostatic Sensitive devices</div> |  | Unit | Value / LED Color |         |         |                  |         |
|                                                                                                                                                     |                                                                                     |      | Blue              | Green   | Red     | White            | Yellow  |
| FORWARD CURRENT                                                                                                                                     | If                                                                                  | mA   | 10                | 20      | 20      | 2                | 20      |
| REVERSE VOLTAGE                                                                                                                                     | Vr                                                                                  | V    | 5.0               | 5.0     | 5.0     | 5.0              | 5.0     |
| REVERSE CURRENT                                                                                                                                     | Ir                                                                                  | μA   | 10                | 10      | 10      | 10               | 10      |
| FORWARD VOLTAGE                                                                                                                                     | Vf                                                                                  | V    | @ 10mA<br>3.0-4.0 | 2.1-2.5 | 2.0-2.5 | @ 2mA<br>2.8-4.0 | 2.0-2.5 |
| LUMINOUS INTENSITY                                                                                                                                  | Iv                                                                                  | mcd  | @ 10mA<br>200     | 800     | 1800    | @ 2mA<br>12      | 1800    |

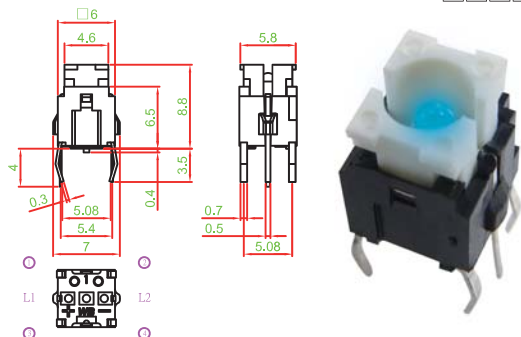
■ Physical and electrical information of LED will be provided upon customer's request on switches .

► **HOW TO ORDER**

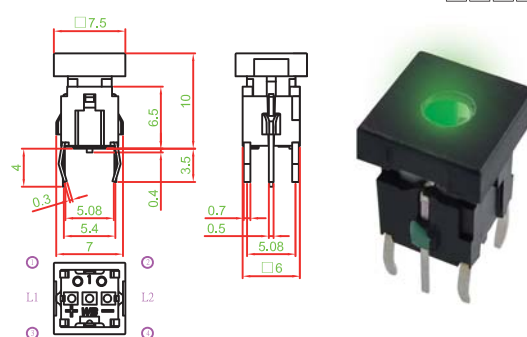


# ▶ FRAME TYPE OPTION

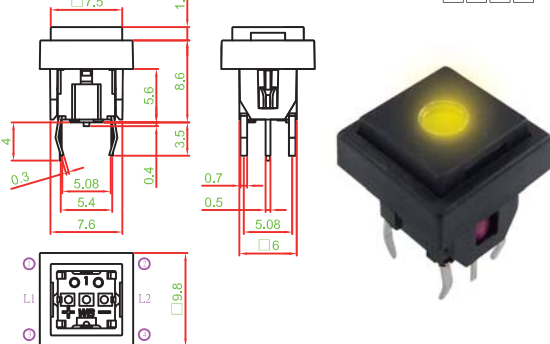
TC013-N11AXXX□□□□



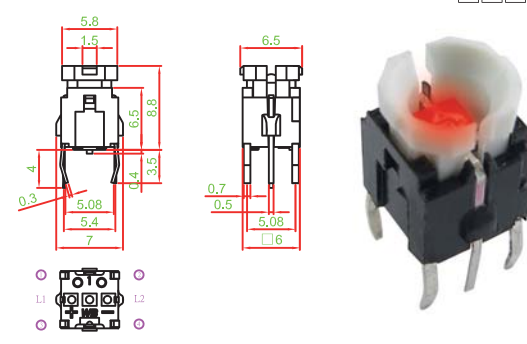
TC013-N11ASXK□□□□



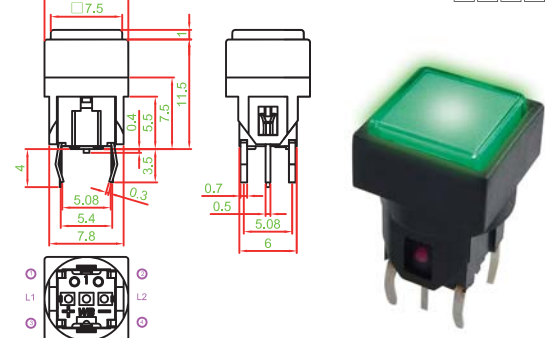
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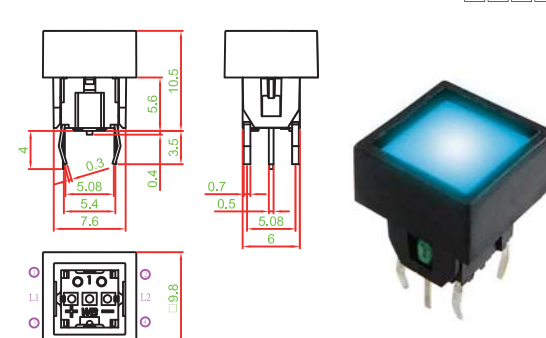
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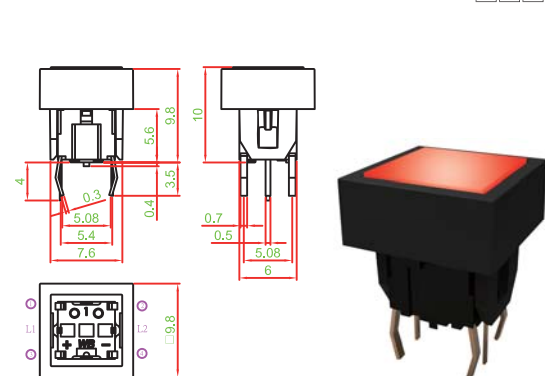
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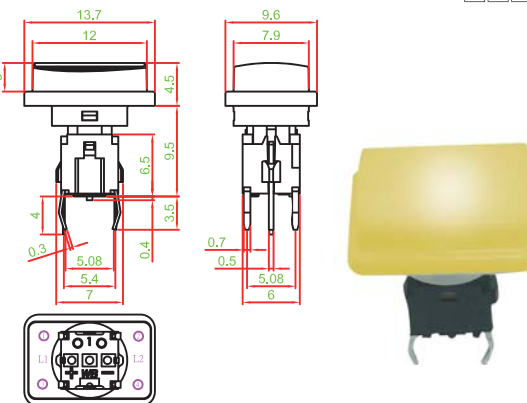
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TC013-N11AS2AKW□□□□

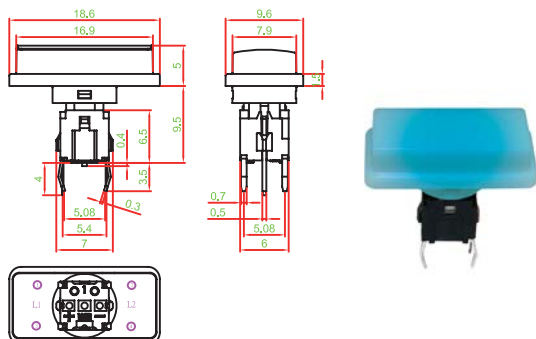


TC013-N11AS3XW□□□□

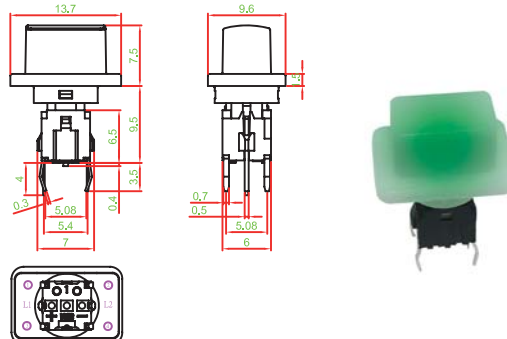


► FRAME TYPE OPTION

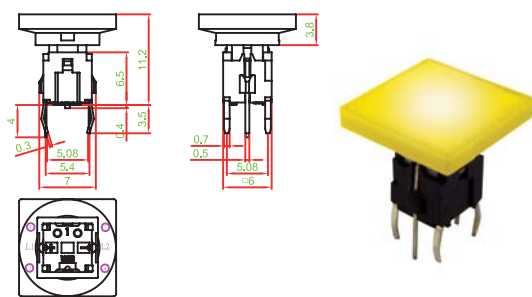
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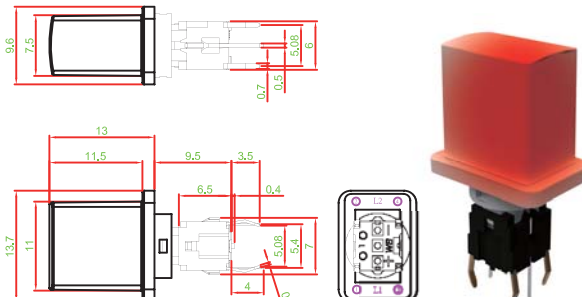
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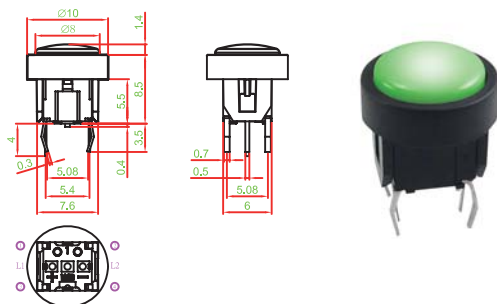
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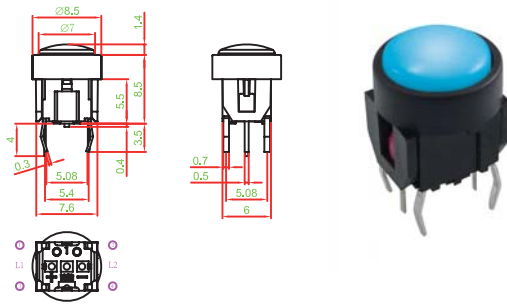
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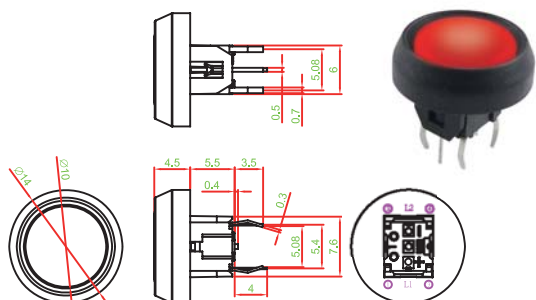
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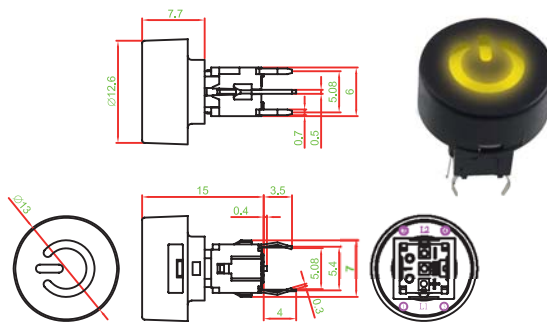
TC013-N11AR2KW□□□□



TC013-N11AR3KW□□□□

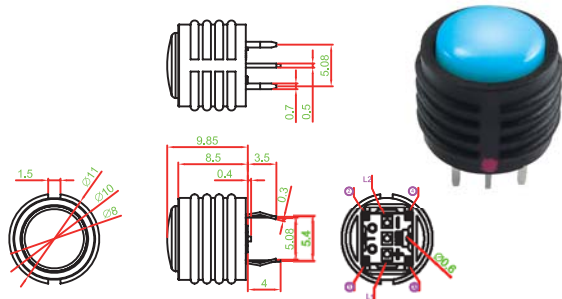


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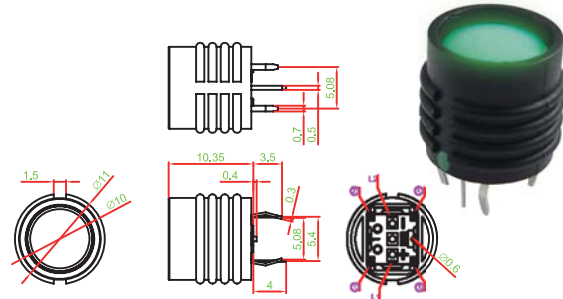
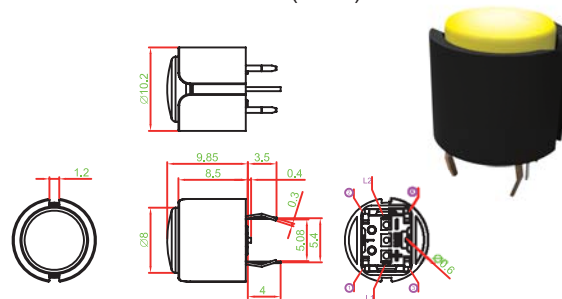
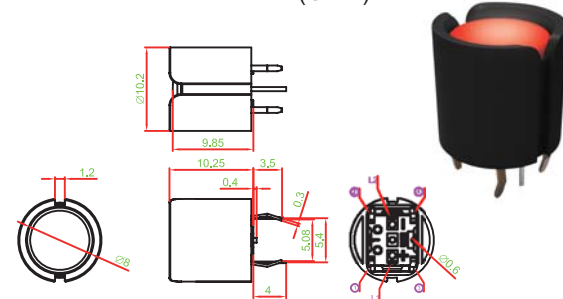


# ▶ FRAME TYPE OPTION

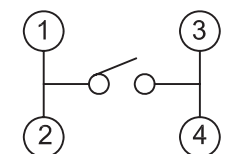
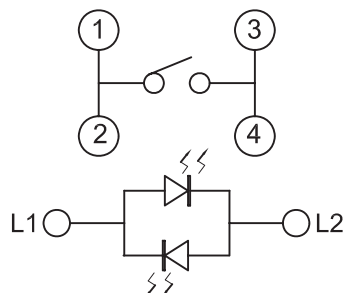
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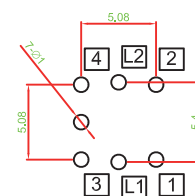
TC013-N11AR6KW□□


TC013-N11AR7KW□□□□  
(ODM)

TC013-N11AR8KW□□  
(ODM)


# ▶ CIRCUIT

LED :  
SINGLE  
COLOR

LED :  
TWO  
COLOR


# ▶ P.C.B LAYOUT



# ▶ MATERIAL

- COVER : PA
- ACTUATOR : PA + GF
- BASE FRAME : PA + GF
- TERMINAL : BRASS SILVER PLATING

|   | 0          | 1     | 2            | 3            | 4         | 5              | 6           | 7           | 8           | 9        | 10     | 11     | 12     | 13     | 14        | 15     | 16     | 17     | 18     | 19     |
|---|------------|-------|--------------|--------------|-----------|----------------|-------------|-------------|-------------|----------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|
| A | 0          | 1     | 2            | 3            | 4         | 5              | 6           | 7           | 8           | 9        | 10     | 11     | 12     | 13     | 14        | 15     | 16     | 17     | 18     | 19     |
| B | A          | B     | C            | D            | E         | F              | G           | H           | I           | J        | CH5    | CH6    | DSK    | PIP    | C-KEY     | CUT    | TAKE   | REC    | ENG    | PROD   |
| C | K          | L     | M            | N            | O         | P              | Q           | R           | S           | T        | REPLAY | RET1   | RET2   | KEY ON | AUTO TAKE |        |        |        |        |        |
| D | U          | V     | W            | X            | Y         | Z              | POWER       | ON OFF      | ON          | OFF      |        | USER A | USER B | USER C | USER D    | USER E | USER F | USER G | USER H | USER I |
| E | OK         |       | Auto         | Enter        | Start     | STOP           | OPEN        | CLOSE       | Exit        | Move     | USER J |        |        |        |           |        |        |        |        |        |
| F | SET        | Reset | Light        | Alarm        | Menu      | Next           | Back        | Delete      | Motor       | Save     |        |        |        |        |           |        |        |        |        |        |
| G | Up         | Down  | Right        | Left         | Test      | End            | Insert      | Lock        | Print       | +/-      |        |        |        |        |           |        |        |        |        |        |
| H | ESC        | BC    | HOME         | Health       | D-LED 2   | OC GENIE       | VIDEO INPUT | clr CMOS    | Green Power | Save OK  |        |        |        |        |           |        |        |        |        |        |
| I |            |       |              | F1           | F2        | F3             | F4          | F5          | F6          | F7       |        |        |        |        |           |        |        |        |        |        |
| J | F8         | F9    | F10          | F11          | F12       | F13            | F14         | IN 1        | IN 2        | IN 3     |        |        |        |        |           |        |        |        |        |        |
| K | IN 4       | IN 5  | IN 6         |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| L | +          | -     | x            | ÷            | =         | ↑              | →           | ▲           | ▶           | ▶▶       |        |        |        |        |           |        |        |        |        |        |
| M |            |       |              |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| N | ↑          | →     | ▲            | ◀            | ▶         | ◀◀             | ▶▶          | ◀           | ▶           | ◀        |        |        |        |        |           |        |        |        |        |        |
| O |            |       |              |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| P |            |       |              |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| Q | ME3        | ME4   | BGND 3D DVE1 | BGND 3D DVE2 | BUS COLOR | ME BUTTON LINK | *           | INSERT      | WIPE        |          |        |        |        |        |           |        |        |        |        |        |
| R |            | ALL   |              | VP           |           | COPY           |             | RECORD MODE |             |          |        |        |        |        |           |        |        |        |        |        |
| S |            |       | MUTE         |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| T |            |       | group        |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| U |            |       | chair        |              |           |                |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| V |            |       | OC           |              |           | CLEAR          | CROSS WIND  | AMMO TEMP   | BARO PRESS  | AIR TEMP |        |        |        |        |           |        |        |        |        |        |
| W | BORE-SIGHT | CANT  | LEAD         | RANGE        | MRS       | ZERO           | TEST        | UD          | LR          |          |        |        |        |        |           |        |        |        |        |        |
| X | ID         | Disp  | MF           | GALL         |           | BAND           | SETUP       | MODE        | LINK        | FUNC     |        |        |        |        |           |        |        |        |        |        |
| Y | SHIFT      |       |              |              |           | DEL            |             |             |             |          |        |        |        |        |           |        |        |        |        |        |
| Z |            |       |              | RUN          | 2D        | 3D             | CH1         | CH2         | CH3         | CH4      |        |        |        |        |           |        |        |        |        |        |

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