

**SERIES:** TS17 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- surface mount
- 0.5 mm actuator height
- 160~260 gf push force options

**SPECIFICATIONS**

| parameter             | conditions/description                                                                   | min  | typ              | max  | units            |
|-----------------------|------------------------------------------------------------------------------------------|------|------------------|------|------------------|
| rated voltage         |                                                                                          | 1    |                  | 12   | Vdc              |
| rated current         |                                                                                          | 0.01 |                  | 50   | mA               |
| withstanding voltage  | for 1 minute                                                                             |      | 250              |      | Vac              |
| contact resistance    | applying load of 2 times operating force at 5 Vdc, 10 mA                                 |      |                  | 100  | mΩ               |
| insulation resistance | at 100 Vdc for 1 minute                                                                  | 100  |                  |      | MΩ               |
| operating force       | see force table                                                                          |      |                  |      |                  |
| actuator travel       |                                                                                          | 0.10 | 0.20             | 0.30 | mm               |
| operating temperature |                                                                                          | -30  |                  | 80   | °C               |
| storage temperature   |                                                                                          | -40  |                  | 90   | °C               |
| life                  | rated load, 2 cycles/second, 1.5 times operating force<br>160 gf models<br>260 gf models |      | 50,000<br>40,000 |      | cycles<br>cycles |
| vibration             | 10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ                                       |      |                  |      |                  |
| flammability rating   | see material table                                                                       |      |                  |      |                  |
| RoHS                  | yes                                                                                      |      |                  |      |                  |

**PART NUMBER KEY****TS17 - 48 - 05 - YE - XXX - SMT - TR**

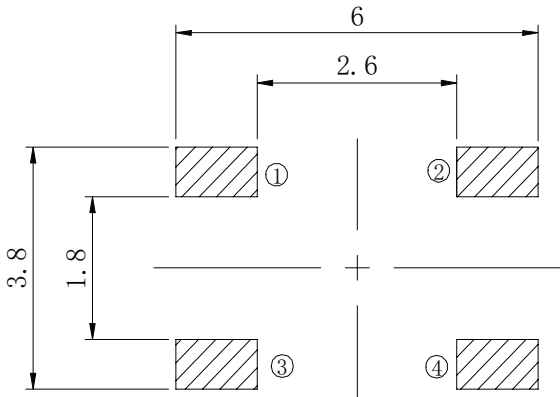
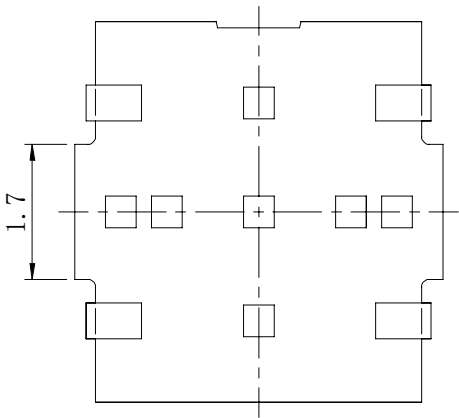
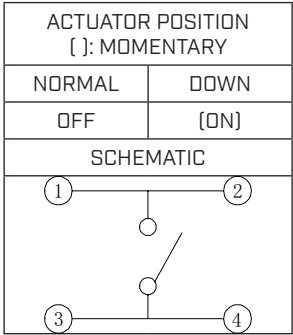
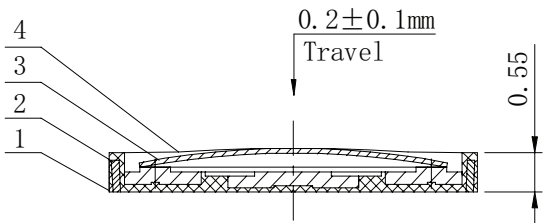
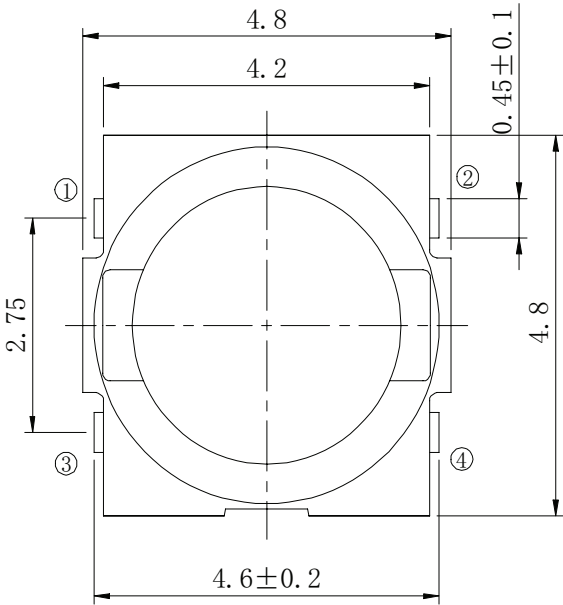
Base Number

Push Force:  
160 = 160 gf  
260 = 260 gf

MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm  
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | terminals   | phosphor copper | silver        |
| 2    | housing     | LCP [UL94V-0]   | white         |
| 3    | contacts    | SUS             | silver        |
| 4    | cover       | PI              | yellow        |



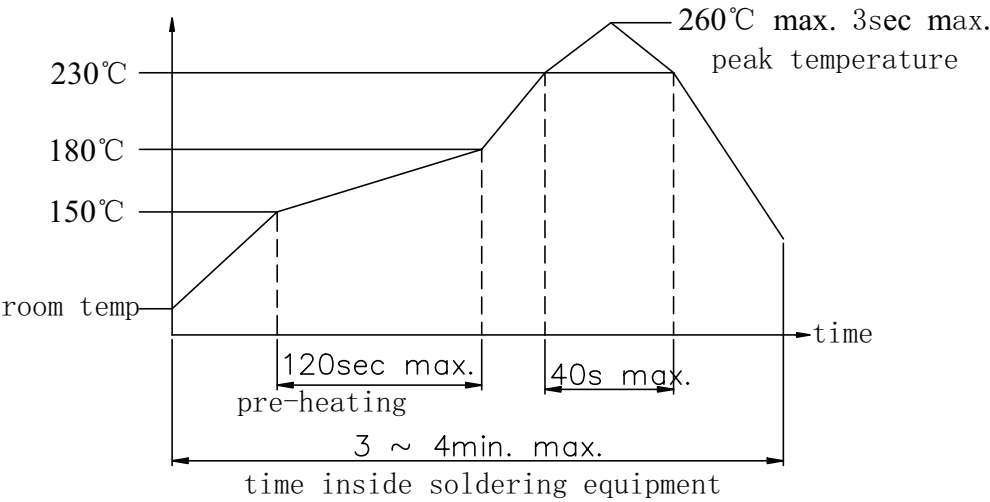
Recommended PCB Layout  
Top View

| Operating Force Table |                  |                   |
|-----------------------|------------------|-------------------|
| Model                 | Press Force [gf] | Return Force [gf] |
| 160                   | 160 $\pm$ 50     | >20               |
| 260                   | 260 $\pm$ 50     | >20               |

SOLDERABILITY

| parameter                     | conditions/description | min | typ | max | units |
|-------------------------------|------------------------|-----|-----|-----|-------|
| hand soldering                | for maximum 3 seconds  |     |     | 350 | °C    |
| reflow soldering <sup>1</sup> | see reflow profile     |     |     | 260 | °C    |

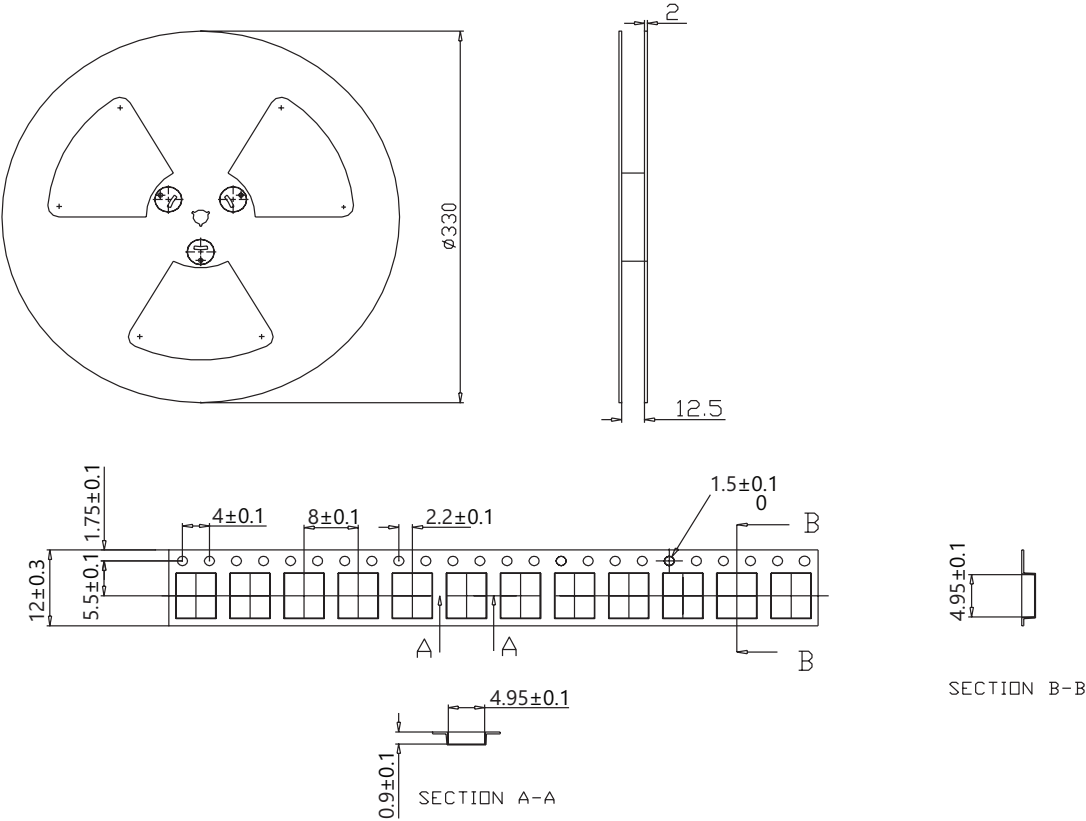
Notes: 1. Do not exceed 2 reflow cycles.



PACKAGING

units: mm

Reel Size: Ø330 mm  
Reel QTY: 5,000 pcs per reel  
Carton Size: 430 x 340 x 340 mm  
Carton QTY: 100,000 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 05/10/2022 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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