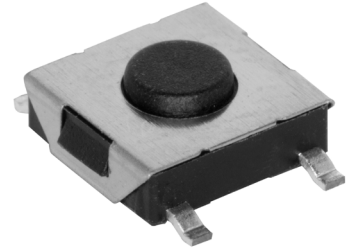


**SERIES:** TS07 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- surface mount
- tape and reel
- black actuator

**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       |                                                          | 0.15 | 0.25    | 0.35 | mm     |
| operating temperature |                                                          | -30  |         | 80   | °C     |
| storage temperature   |                                                          | -40  |         | 90   | °C     |
| life                  | rated load, 2 cycles/second, 1.5 times operating force   |      |         |      |        |
|                       | 100 gf models                                            |      | 100,000 |      | cycles |
|                       | 160 gf models                                            |      | 80,000  |      | cycles |
|                       | 260 gf models                                            |      | 60,000  |      | 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**

**TS07 - 667 - XX - BK - XXX - SMT - TR**

Base Number

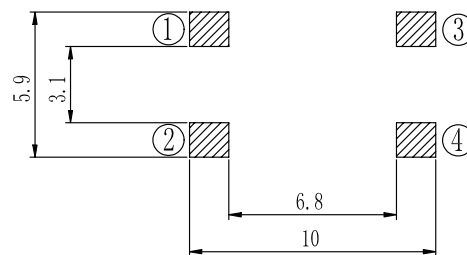
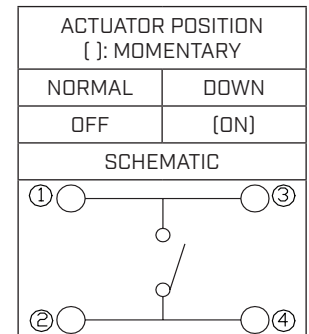
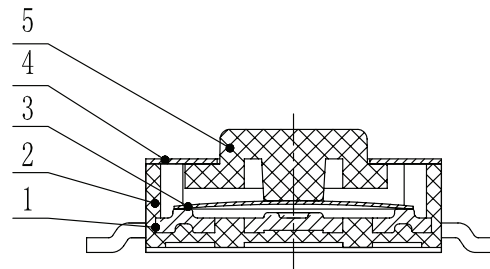
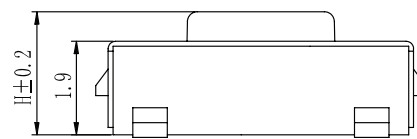
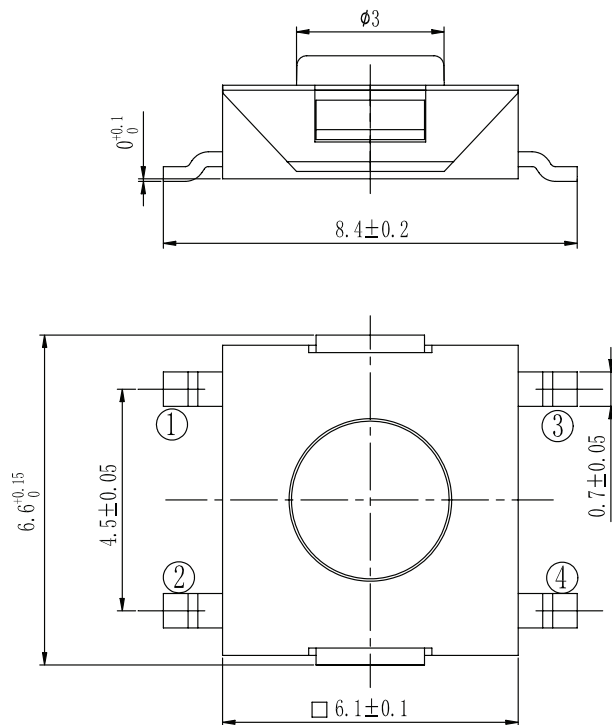
Actuator Height:  
 25 = 2.5 mm    43 = 4.3 mm  
 30 = 3.0 mm    50 = 5.0 mm  
 37 = 3.7 mm

Push Force:  
 100 = 100 gf  
 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   | brass           | silver        |
| 2    | housing     | FR52 [UL94V-0]  | black         |
| 3    | contacts    | stainless steel | silver        |
| 4    | cover       | stainless steel |               |
| 5    | stem        | FR52 [UL94V-0]  | black         |



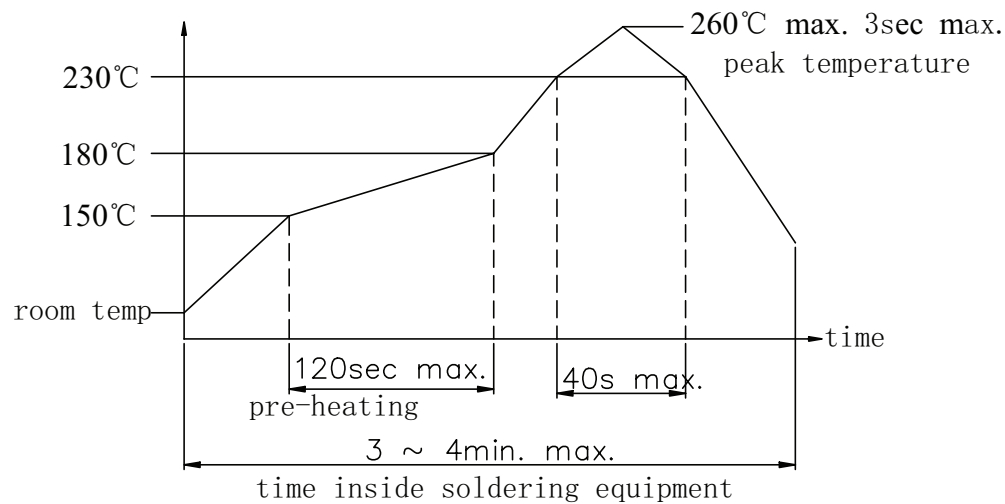
Recommended PCB Layout  
Top View

| Operating Force Table |                 |                  |
|-----------------------|-----------------|------------------|
| Model                 | Press Force [N] | Return Force [N] |
| 100                   | 1.0 $\pm$ 0.3   | >0.2             |
| 160                   | 1.6 $\pm$ 0.5   | >0.2             |
| 260                   | 2.6 $\pm$ 0.5   | >0.2             |

## 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    |

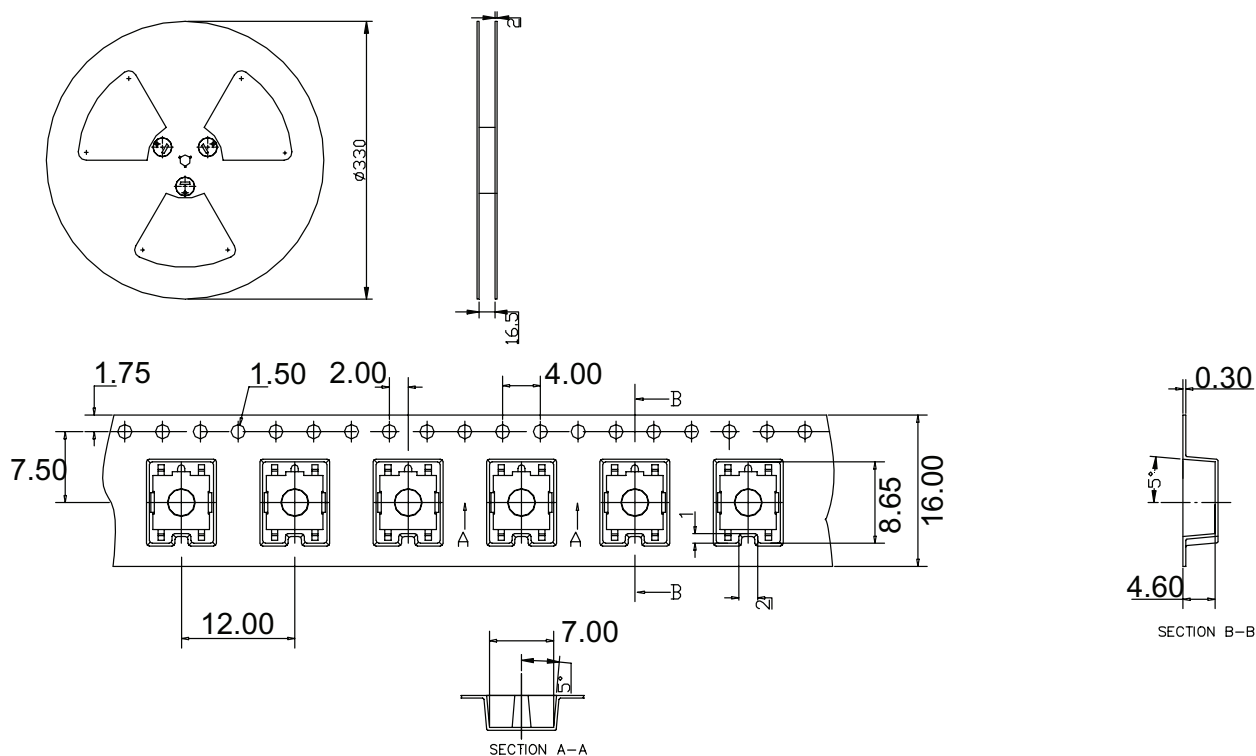
Notes: 1. Do not exceed 2 reflow cycles.



## PACKAGING

units: mm

Reel Size: Ø330 mm  
QTY: 1,000 pcs



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 09/22/2021 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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

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