

**SERIES:** TS45 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- surface mount
- white actuator
- yellow/green actuator
- yellow actuator

**SPECIFICATIONS**

| parameter             | conditions/description                                                                                         | min  | typ     | max  | units  |
|-----------------------|----------------------------------------------------------------------------------------------------------------|------|---------|------|--------|
| rated voltage         |                                                                                                                | 1    |         | 16   | 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       | 260 gf model                                                                                                   | 210  | 260     | 310  | gf     |
|                       | 400 gf model                                                                                                   | 320  | 400     | 480  | gf     |
|                       | 700 gf model                                                                                                   | 550  | 700     | 850  | gf     |
| return force          | 260 & 400 gf models                                                                                            | 20   |         |      | gf     |
|                       | 700 gf model                                                                                                   | 100  |         |      | gf     |
| actuator travel       | 260 gf model                                                                                                   | 0.50 | 0.70    | 0.90 | mm     |
|                       | 400 & 700 gf models                                                                                            | 0.60 | 0.90    | 1.20 | mm     |
| operating temperature | 260 & 700 gf models                                                                                            | -40  |         | 90   | °C     |
|                       | 400 gf model                                                                                                   | -40  |         | 85   | °C     |
| life                  | 16 Vdc, 50 mA (for 260 & 400 gf models); 12 Vdc, 50 mA (for 700 gf model), 1 cycle/second, max operating force |      | 100,000 |      | 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****TS45 - 8383 - 405 - XX - XXX - SMT - TR**

Base Number

Actuator Color:

WT = white

Y = yellow

YG = yellow + green

Push Force:

260 = 260 gf

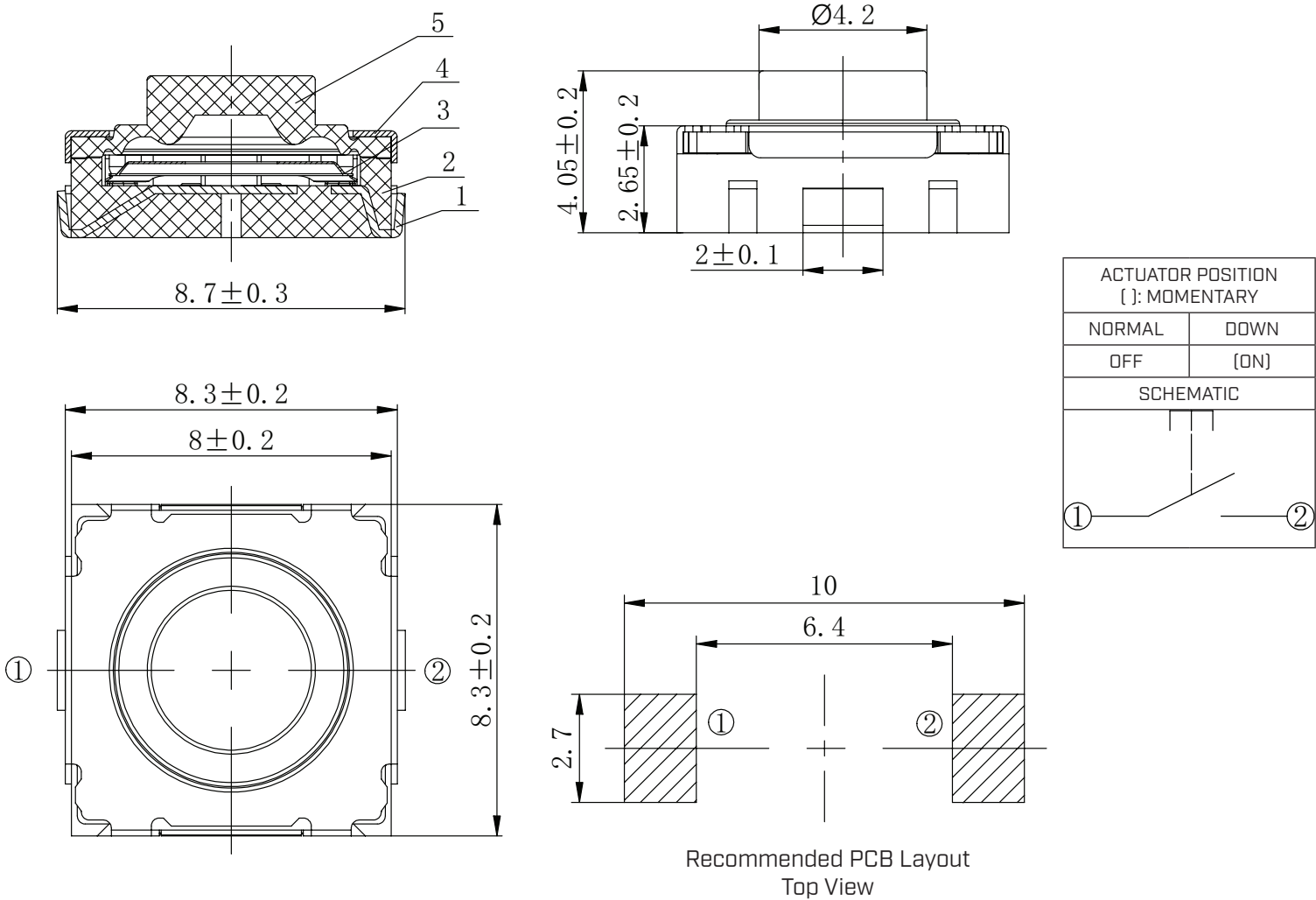
400 = 400 gf

700 = 700 gf

MECHANICAL DRAWING (260 & 400 GF MODELS)

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

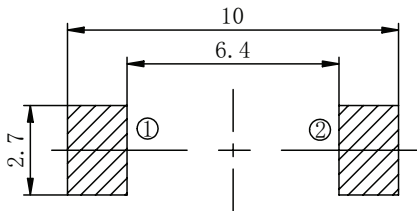
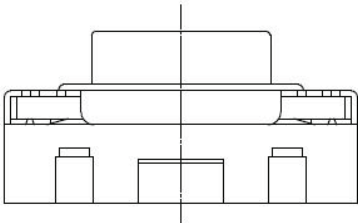
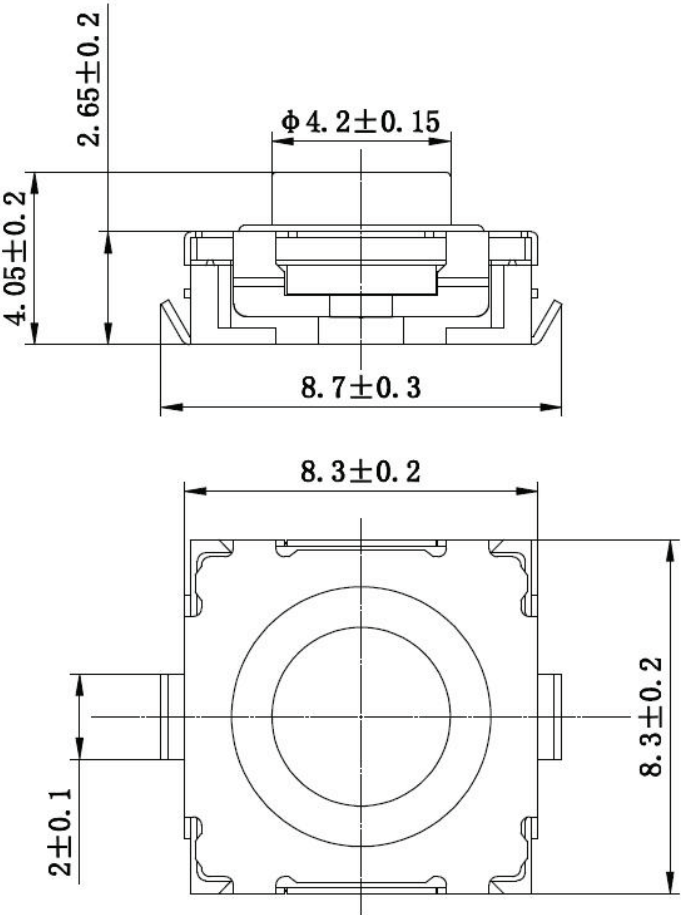
| ITEM | DESCRIPTION | MATERIAL       | PLATING/COLOR   |
|------|-------------|----------------|-----------------|
| 1    | terminals   | brass          | silver          |
| 2    | housing     | FR52 [UL94V-0] | black           |
| 3    | contacts    | SUS            | silver          |
| 4    | cover       | SUS            | --              |
| 5    | stem        | silica gel     | white or yellow |



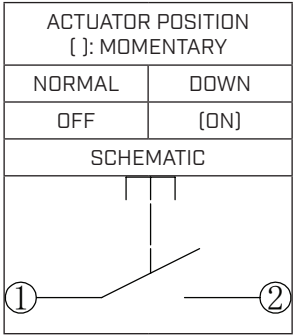
MECHANICAL DRAWING (700 GF MODELS)

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    | SUS            | silver        |
| 4    | cover       | SUS            | --            |
| 5    | stem        | silica gel     | yellow/green  |

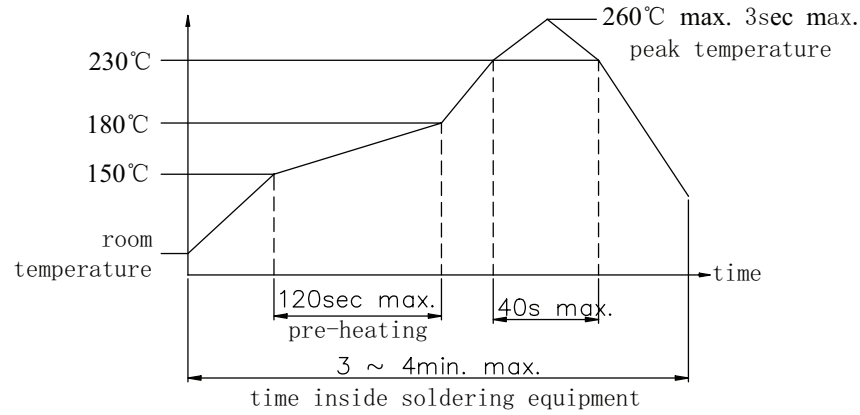


Recommended PCB Layout  
Top View



## SOLDERABILITY

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

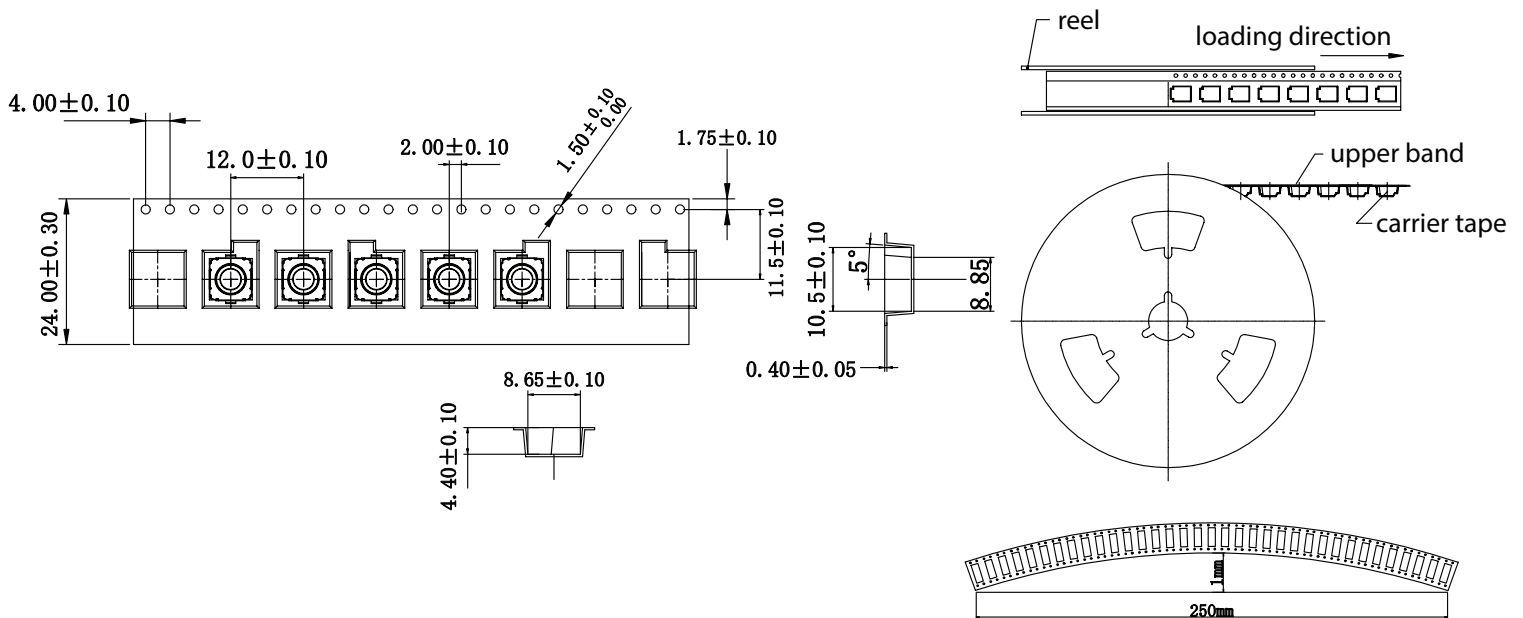


## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 1,500 pcs per reel



REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 11/20/2025 |

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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