

date 08/05/2022

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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 | | | ΜΩ |
| 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 160 gf models 260 gf models | | 50,000 40,000 | | cycles cycles |
| vibration | 10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ | | | | |
| flammability rating | see material table | | | | |
| RoHS | Ves | | | | |

PART NUMBER KEY

TS17 - 48 - 05 - YE - XXX - SMT - TR

Base Number

Push Force:
160 = 160 gf
260 = 260 gf

ACTUATOR POSITION
[]: MOMENTARY

SCHEMATIC

DOWN

(ON)

(2)

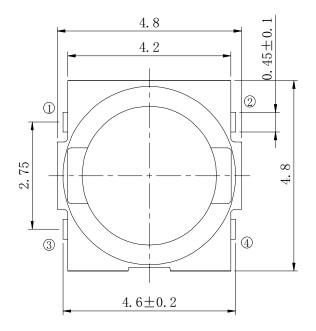
NORMAL

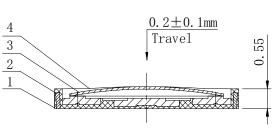
OFF

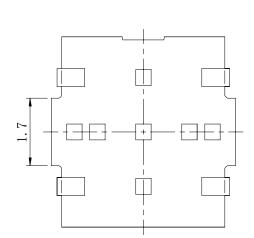
MECHANICAL DRAWING

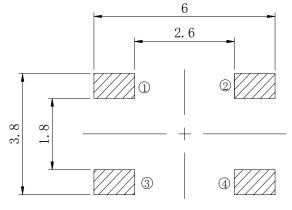
units: mm tolerance: ±0.2 mm unless otherwise noted

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









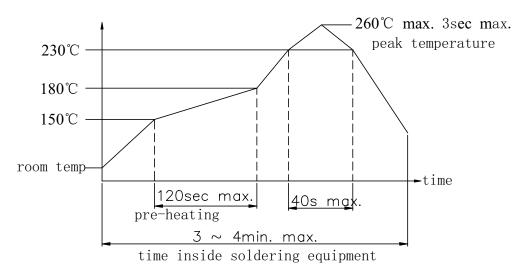
Recommended PCB Layout Top View

| Operating Force Table | | | |
|-----------------------|------------------|-------------------|--|
| Model | Press Force (gf) | Return Force (gf) | |
| 160 | 160±50 | >20 | |
| 260 | 260±50 | >20 | |

SOLDERABILITY

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

Notes: 1. Do not exceed 2 reflow cycles.

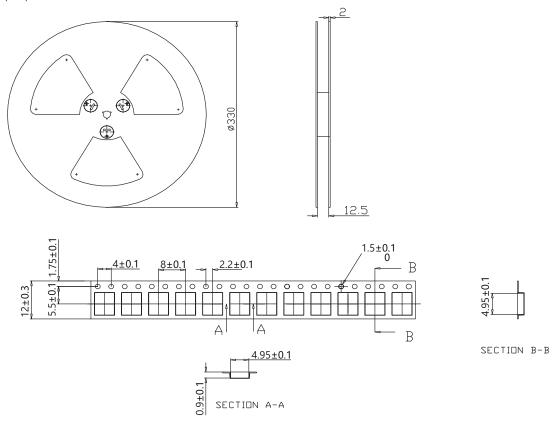


PACKAGING

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 |

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



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