

SERIES: TS13 | **DESCRIPTION:** TACTILE SWITCH

FEATURES

- 7.3 mm actuator
- 100-260 gf
- through hole


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 | | 0.25 | 0.35 | 0.45 | 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 160 gf models 260 gf models | | 80,000 80,000 60,000 | | cycles cycles cycles |
| vibration | 10-55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ | | | | |
| flammability rating | see material table | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 3 seconds | | | 350 | °C |
| wave soldering | for maximum 5 seconds | | | 260 | °C |

PART NUMBER KEY

TS13 - 1212 - 73 - BK - XXX - D

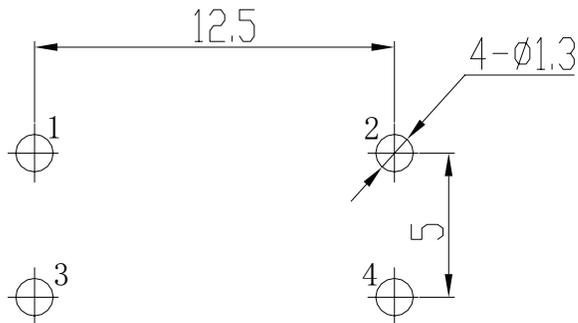
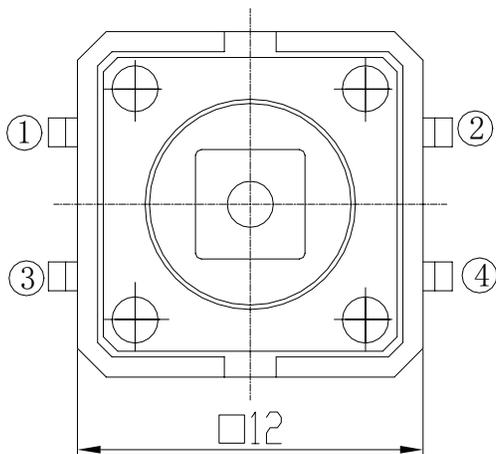
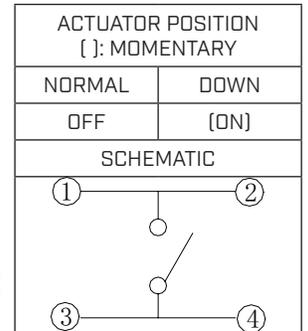
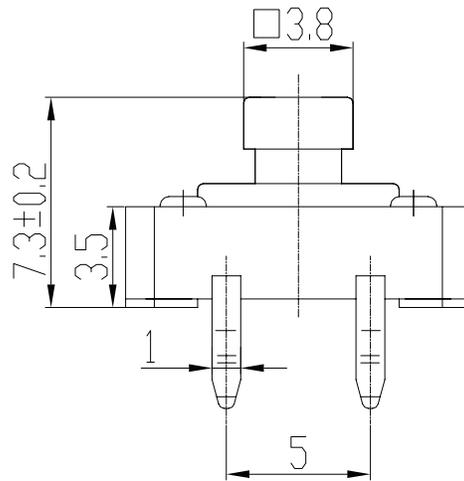
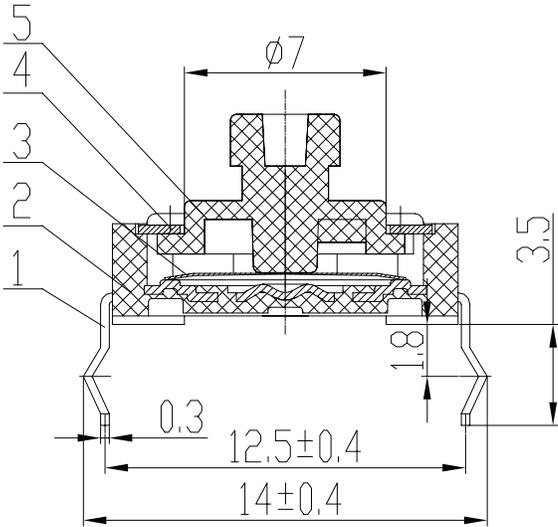
Base Number

Push Force:
100 = 100 gf
160 = 160 gf
260 = 260 gf

MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1 | terminals | brass | silver |
| 2 | housing | PA66 (UL94HB) | black |
| 3 | contacts | phosphor bronze | silver |
| 4 | cover | stainless steel | |
| 5 | stem | PA66 (UL94HB) | black |

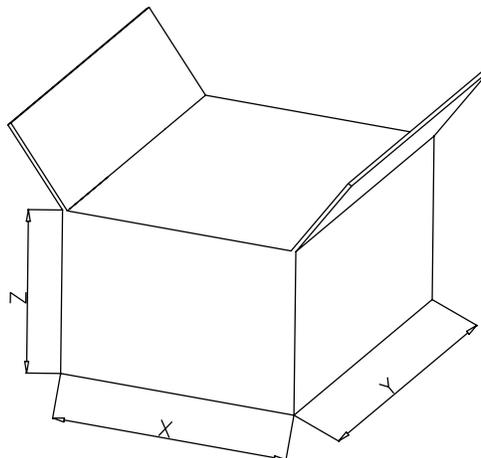
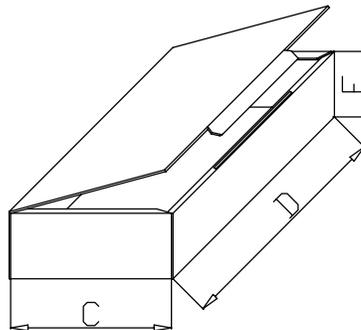
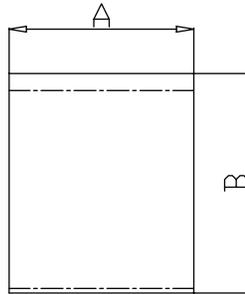


Recommended PCB Layout
Top View

| Operating Force Table | | |
|-----------------------|------------------|-------------------|
| Model | Press Force [gf] | Return Force [gf] |
| 100 | 100±30 | >20 |
| 160 | 160±50 | >20 |
| 260 | 260±50 | >20 |

PACKAGING

| Packaging Table | | | | | | |
|-----------------------------|---------------------|---------|-------------------------------|---------------|--------------------------|------------|
| Actuator Height Models (mm) | Bag Size (AxB) (mm) | Bag QTY | Inner Box Size (Cx Dx E) (mm) | Inner Box QTY | Carton Size (XxYxZ) (mm) | Carton QTY |
| 7.3 | 160 x 190 | 500 | 160 x 216 x 61 | 1,000 | 350 x 455 x 270 | 16,000 |



REVISION HISTORY

| rev. | description | date |
|------|------------------------------|------------|
| 1.0 | initial release | 04/13/2022 |
| 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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