

**SERIES:** TS03 | **DESCRIPTION:** TACTILE SWITCH

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**FEATURES**

- IP67
- long crimped pins
- 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       |                                                                                          | 0.15 | 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<br>160 gf models<br>260 gf models |      | 80,000<br>60,000 |      | cycles<br>cycles |
| vibration             | 10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ                                       |      |                  |      |                  |
| flammability rating   | see material table                                                                       |      |                  |      |                  |
| RoHS                  | yes                                                                                      |      |                  |      |                  |
| IP level              | IP67                                                                                     |      |                  |      |                  |

**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**

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**TS03 - 66 - XX - BK - XXX - LCR - D - 67**

Base Number

Actuator Height:

50 = 5.0 mm

70 = 7.0 mm

80 = 8.0 mm

95 = 9.5 mm

Push Force:

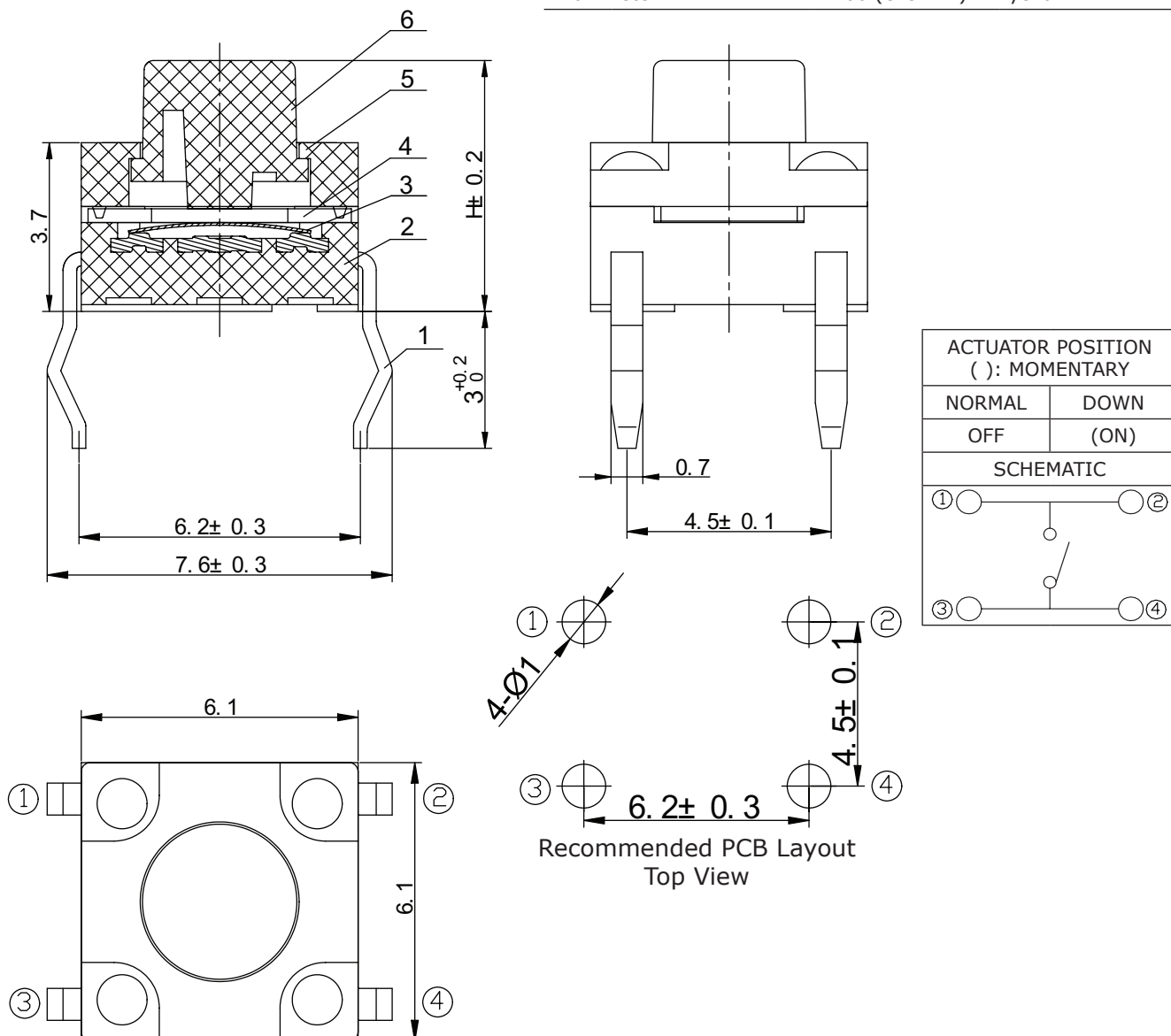
160 = 160 gf

260 = 260 gf

## MECHANICAL DRAWING

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

| ITEM | DESCRIPTION         | MATERIAL        | PLATING/COLOR |
|------|---------------------|-----------------|---------------|
| 1    | terminals           | brass           | silver        |
| 2    | case                | PA66 (UL94HB)   | black         |
| 3    | contacts            | stainless steel | silver        |
| 4    | waterproof silicone | silica gel      | black         |
| 5    | cover               | PA66 (UL94V-0)  | black         |
| 6    | stem                | PA66 (UL94HB)   | yellow        |



| Operating Force Table |                 |                  |
|-----------------------|-----------------|------------------|
| Model                 | Press Force (N) | Return Force (N) |
| 160                   | $1.6 \pm 0.5$   | $> 0.2$          |
| 260                   | $2.6 \pm 0.5$   | $> 0.2$          |

## PACKAGING

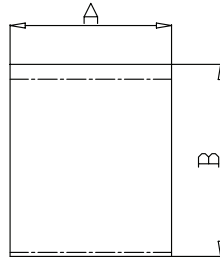
units: mm

Bag Size: 190 x 160 mm

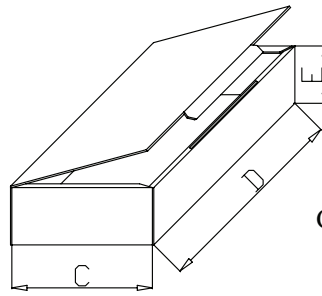
Carton Box Size: 445 x 350 x 280 mm

Bag QTY: 1,000 pcs per bag

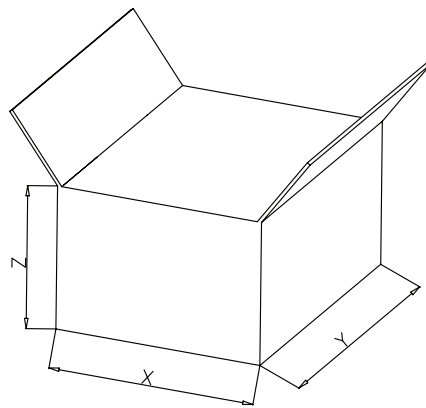
Carton Box QTY: 60,000 pcs per carton



A=160mm、B=190mm



C=160mm、D=216mm、E=48mm



X=350mm、Y=455、Z=280mm

## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 09/20/2021 |

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

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