



## SERIES: TS02 | DESCRIPTION: TACTILE SWITCH

### FEATURES

- through hole
- long crimped pins
- short crimped pins



### 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				

### 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

TS02 - 66 - XX - BK - XXX - XXX - D

Base Number

Actuator Height:

43 = 4.3 mm    80 = 8.0 mm    130 = 13.0 mm  
 50 = 5.0 mm    90 = 9.0 mm    \*140 = 14.0 mm  
 \*55 = 5.5 mm    95 = 9.5 mm    150 = 15.0 mm  
 60 = 6.0 mm    100 = 10.0 mm    153 = 15.3 mm  
 70 = 7.0 mm    110 = 11.0 mm    \*160 = 16.0 mm  
 73 = 7.3 mm    \*120 = 12.0 mm    170 = 17.0 mm

Push Force:

100 = 100 gf  
 160 = 160 gf  
 260 = 260 gf

Terminals:

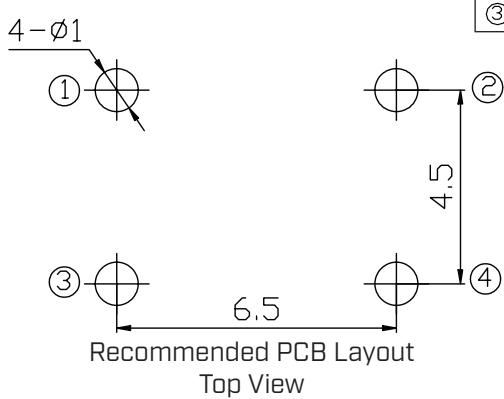
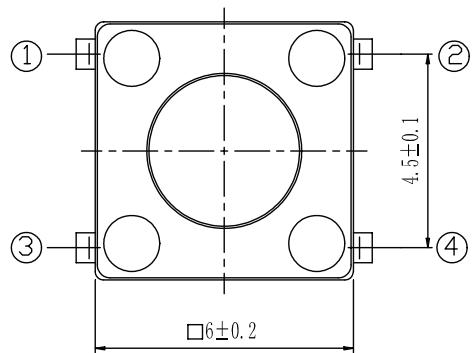
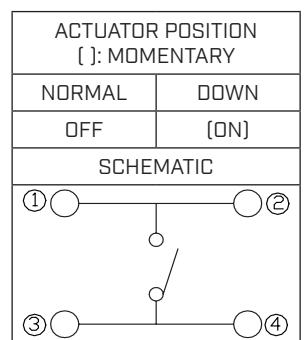
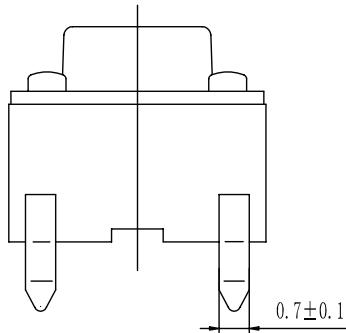
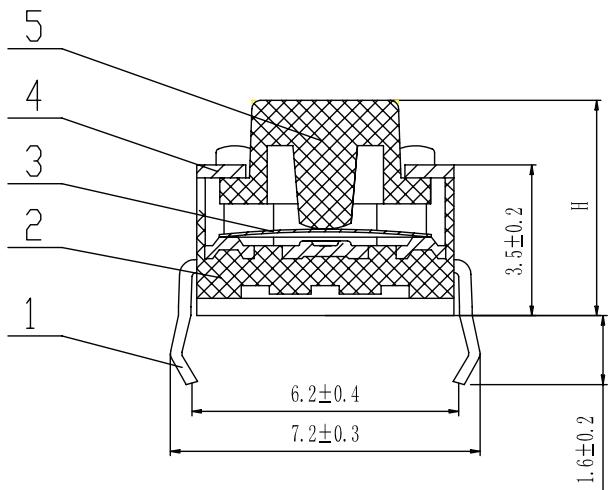
SCR = Short Crimped  
 LCR = Long Crimped

Note: \*Only available with LCR (long crimped) terminals.

## MECHANICAL DRAWING (SCR VERSION)

units: mm  
tolerance:  $\pm 0.2$  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

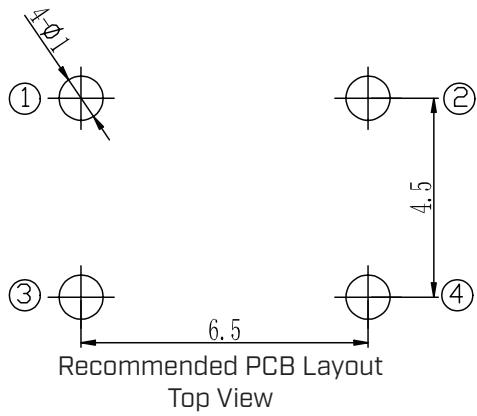
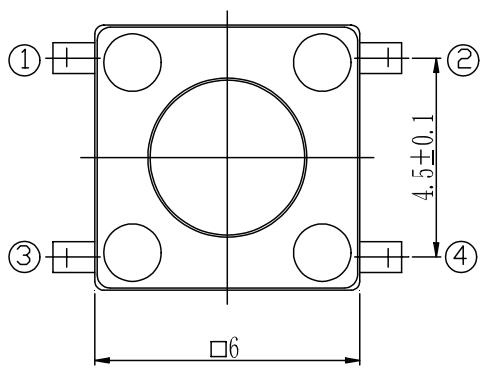
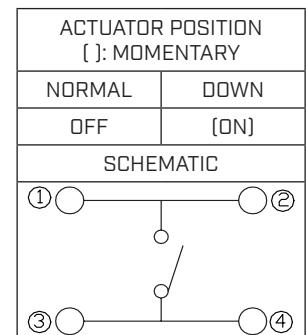
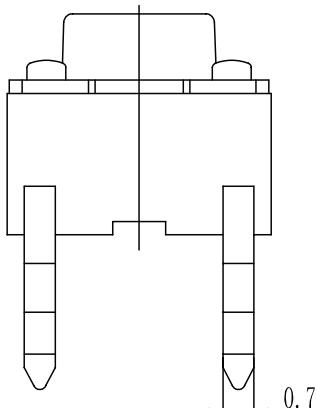
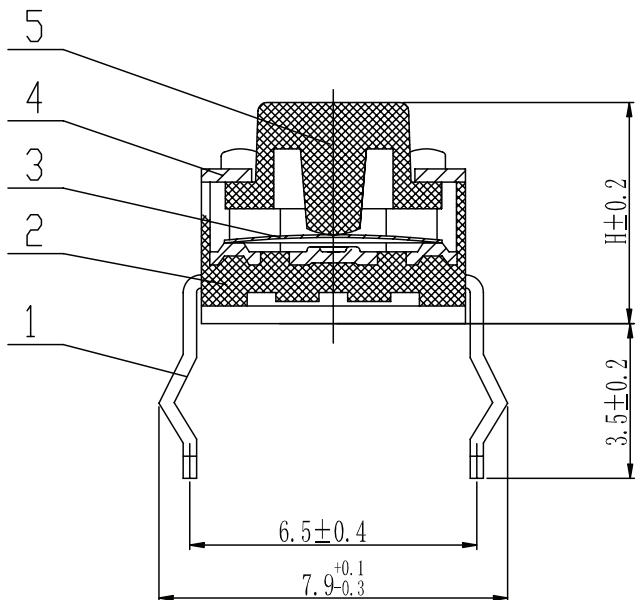


Operating Force Table		
Model	Press Force [N]	Return Force [N]
100	1.0 ± 0.3	>0.2
160	1.6 ± 0.5	>0.2
260	2.6 ± 0.5	>0.2

## MECHANICAL DRAWING (LCR VERSION)

units: mm  
tolerance:  $\pm 0.2$  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



Operating Force Table		
Model	Press Force [N]	Return Force [N]
100	1.0 ± 0.3	> 0.2
160	1.6 ± 0.5	> 0.2
260	2.6 ± 0.5	> 0.2

## PACKAGING

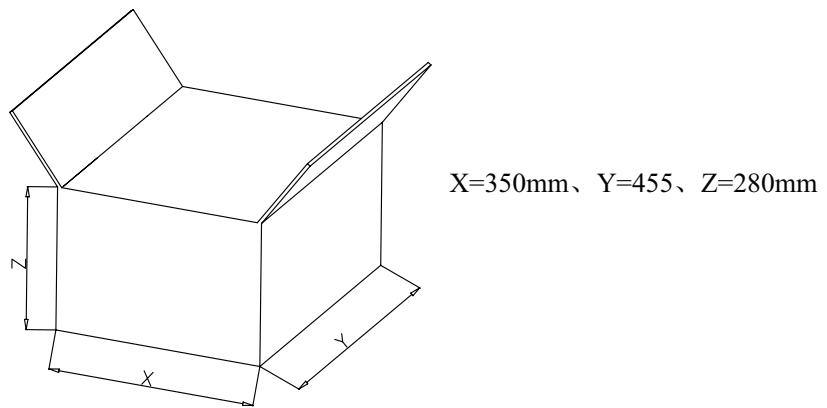
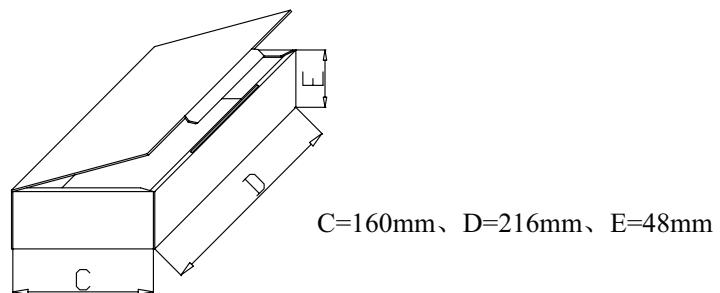
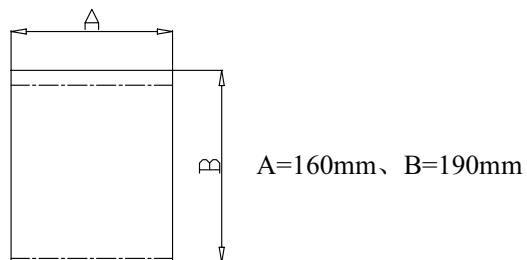
units: mm

Bag Size: 190 x 160 mm

Carton Box Size: 445 x 350 x 280 mm

Bag QTY: 1,000 pcs per box

Carton Box QTY: 60,000 pcs per bag



## REVISION HISTORY

rev.	description	date
1.0	initial release	09/21/2021
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024

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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