



SERIES: TS04 | DESCRIPTION: TACTILE SWITCH

FEATURES

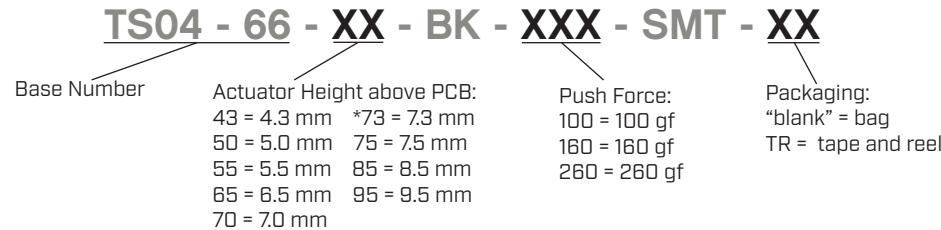
- surface mount
- black actuator



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				

PART NUMBER KEY

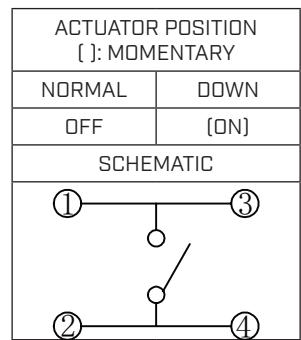
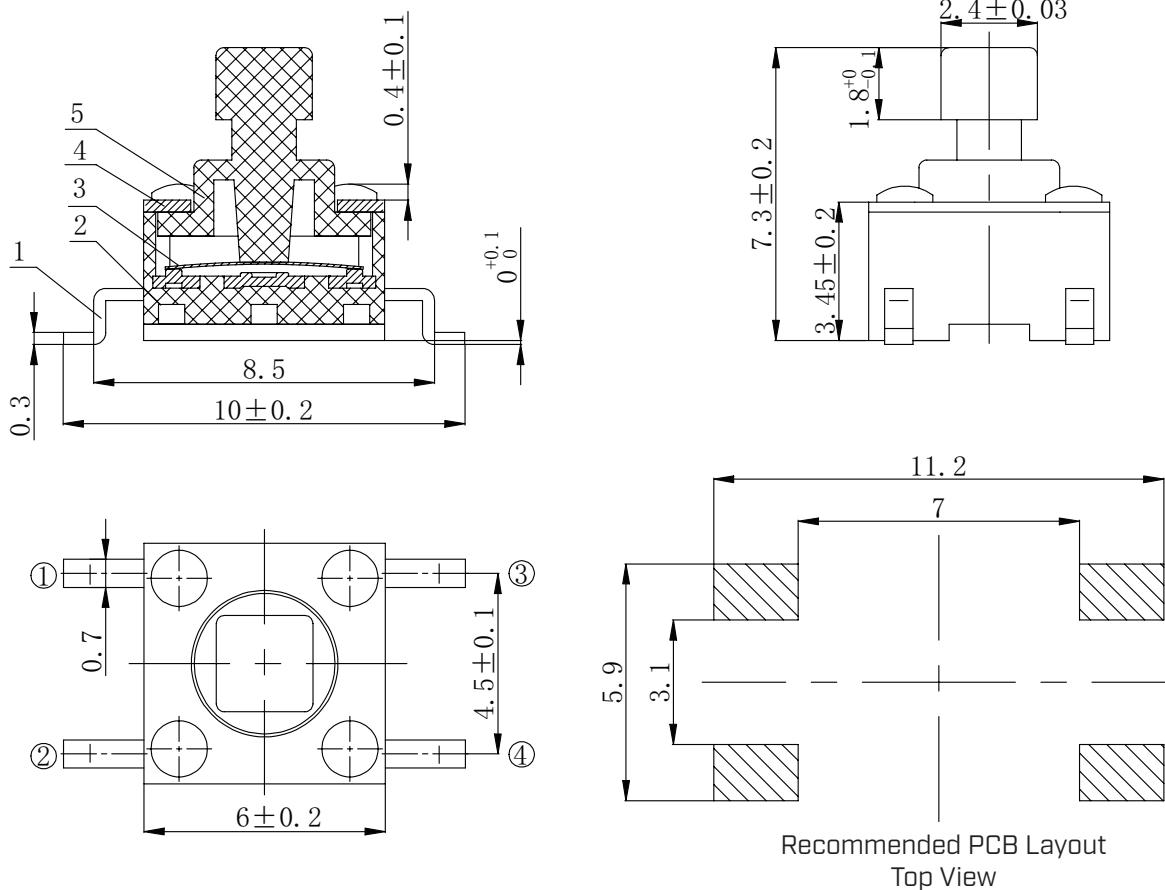


Note: *7.3 mm height versions have square actuator top. All other models have round actuator top.

MECHANICAL DRAWING (7.3 MM HEIGHT MODELS)

units: mm
tolerance: ± 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	cover	stainless steel	
5	stem	PA66 [UL94HB]	black



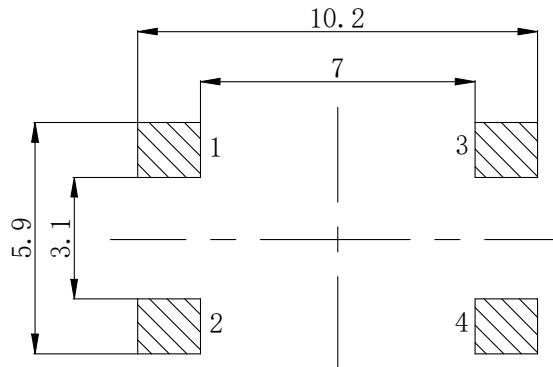
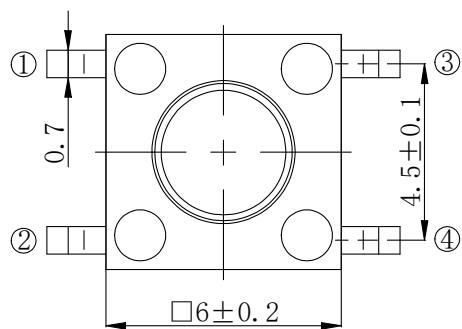
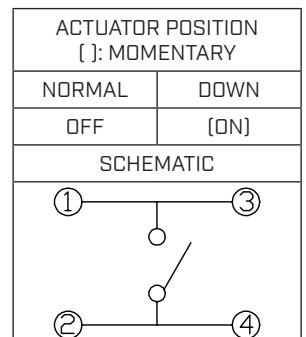
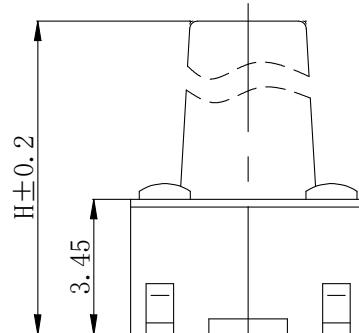
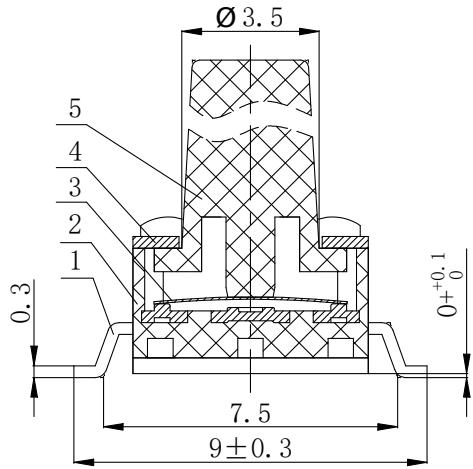
Recommended PCB Layout
Top View

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 (ALL OTHER HEIGHT MODELS)

units: mm
tolerance: ± 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	cover	stainless steel	
5	stem	PA66 [UL94HB]	black



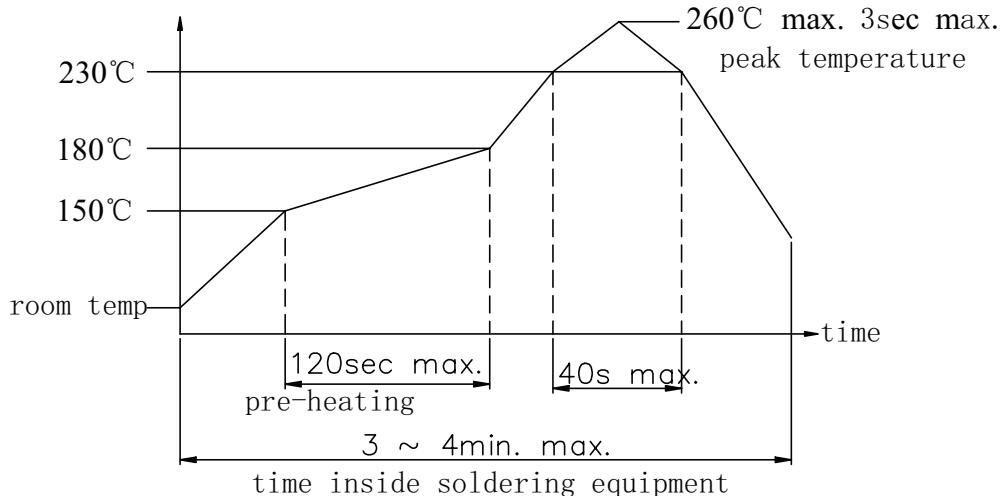
Recommended PCB Layout
Top View

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

SOLDERABILITY

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

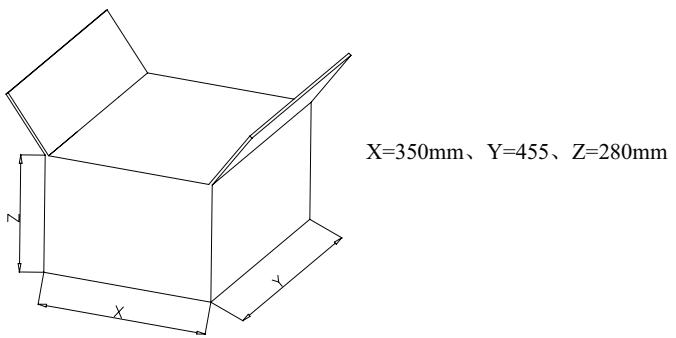
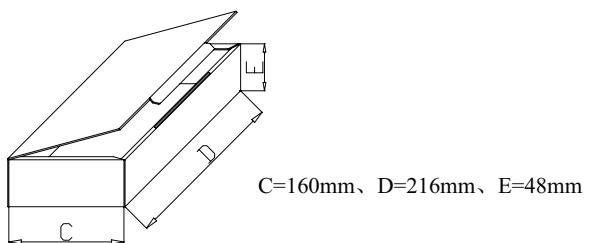
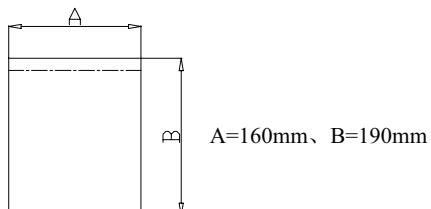
Notes: 1. Do not exceed 2 reflow cycles.



PACKAGING (BAG)

units: mm

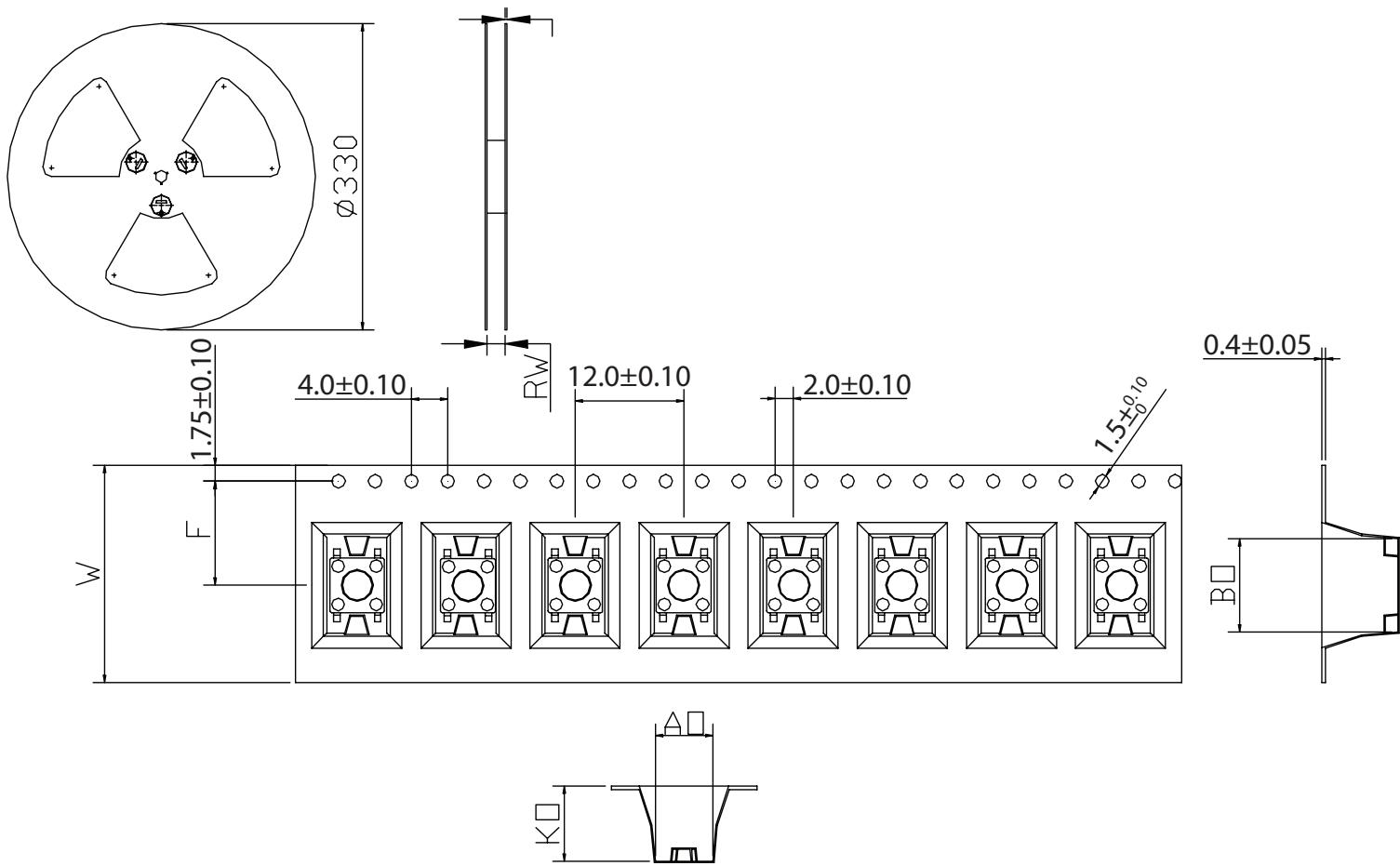
Bag Size: 190 x 160 mm
 Carton Box Size: 445 x 350 x 280 mm
 Bag QTY: 1,000 pcs per bag
 Carton Box QTY: 60,000 pcs per carton



PACKAGING (TAPE & REEL)

Packaging Table

Actuator Height Models [mm]	Reel QTY	Carton Size [XxYxZ] [mm]	Carton QTY	RW [mm]	W [mm]	A0 [mm]	B0 [mm]	K0 [mm]	F [mm]
4.3	1,000	340 x 430 x 340	20,000	16.5	16±0.3	6.3±0.1	10.4±0.1	4.5±0.1	7.5±0.1
5.0	1,000	340 x 430 x 340	20,000	16.5	16±0.3	6.3±0.1	10.4±0.1	5.2±0.1	7.5±0.1
5.5	1,000	340 x 430 x 340	20,000	16.5	16±0.3	6.3±0.1	10.4±0.1	5.7±0.1	7.5±0.1
6.5	800	340 x 430 x 340	16,000	16.5	16±0.3	6.3±0.1	10.4±0.1	6.7±0.1	7.5±0.1
7.0	750	340 x 430 x 340	10,500	24.5	24±0.3	6.3±0.1	10.3±0.1	7.3±0.1	11.5±0.1
7.3	750	340 x 430 x 340	10,500	24.5	24±0.3	6.4±0.1	10.5±0.1	7.8±0.1	11.5±0.1
7.5	750	340 x 430 x 340	10,500	24.5	24±0.3	6.4±0.1	10.5±0.1	7.8±0.1	11.5±0.1
8.5	500	340 x 430 x 340	7,000	24.5	24±0.3	6.3±0.1	10.4±0.1	8.6±0.1	11.5±0.1
9.5	500	340 x 430 x 340	7,000	24.5	24±0.3	6.3±0.1	10.4±0.1	9.6±0.1	11.5±0.1



Note: 1. Actuator height 4.3 & 5.0 models have about 15-25 open positions reserved for the front and rear positions of the reel.
 2. Actuator height 5.5 & 6.5 models have about 15-30 open positions reserved for the front and rear positions of the reel.
 3. Actuator height 7.0, 7.3, & 7.5 models have about 20-35 open positions reserved for the front and rear positions of the reel.
 4. Actuator height 8.5 & 9.5 models have about 30-50 open positions reserved for the front and rear positions of the reel.

REVISION HISTORY

rev.	description	date
1.0	initial release	09/20/2021
1.01	added 7.3 mm height model drawing	11/03/2021
1.02	logo, datasheet style update	08/05/2022
1.03	added tape and reel packaging option	05/12/2023
1.04	CUI Devices rebranded to Same Sky	09/12/2024
1.05	modified terminal shape and changed terminal plating	11/03/2025

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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