

**SERIES:** TS04 | **DESCRIPTION:** TACTILE SWITCH

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**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 160 gf models 260 gf models		100,000 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				

**PART NUMBER KEY**

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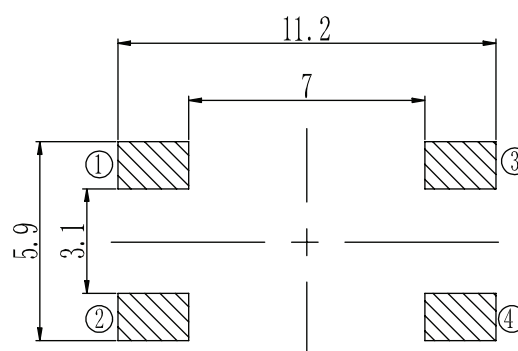
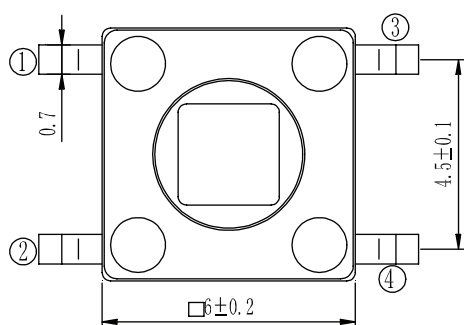
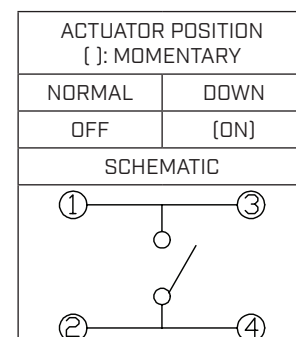
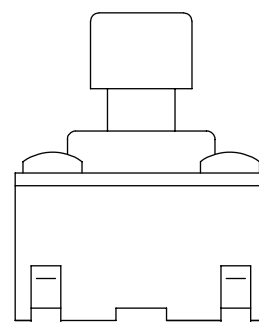
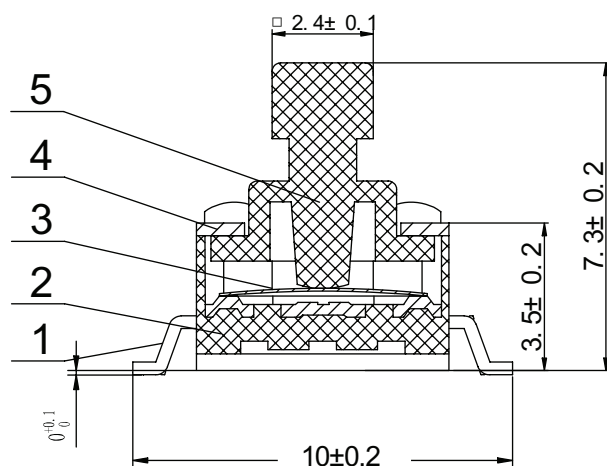
TS04 - 66 - XX - BK - XXX - SMT		
Base Number	Actuator Height:	Push Force:
	43 = 4.3 mm    *73 = 7.3 mm	100 = 100 gf
	50 = 5.0 mm    75 = 7.5 mm	160 = 160 gf
	55 = 5.5 mm    85 = 8.5 mm	260 = 260 gf
	65 = 6.5 mm    95 = 9.5 mm	
	70 = 7.0 mm	

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:  $\pm 0.2$  mm  
unless otherwise noted

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



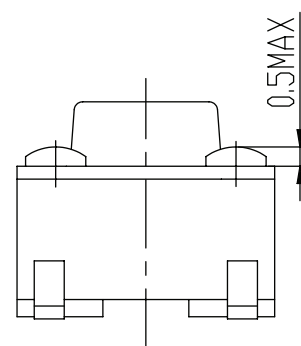
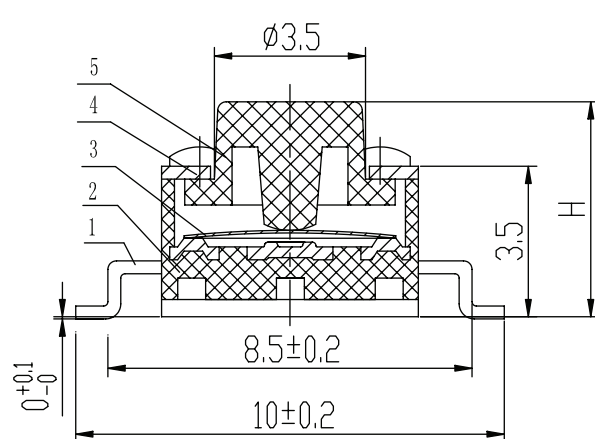
Recommended PCB Layout  
Top View

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

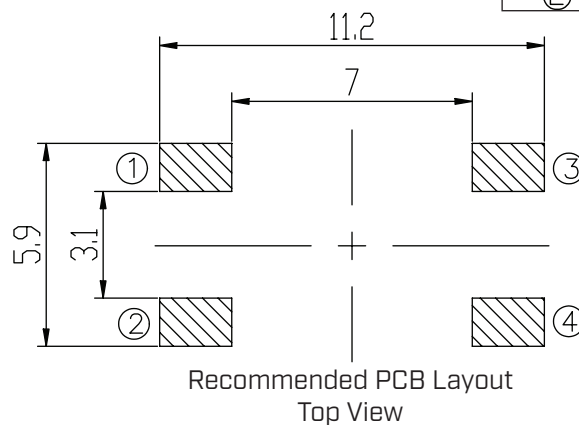
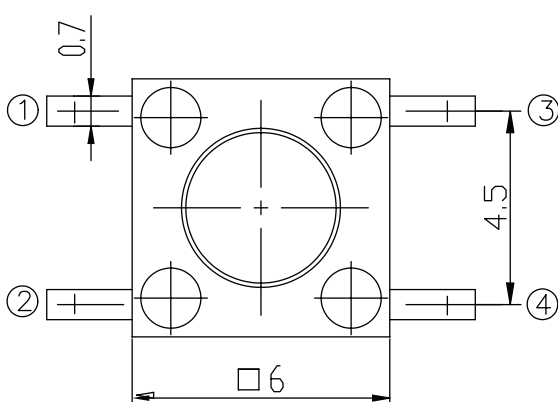
## MECHANICAL DRAWING (ALL OTHER HEIGHT MODELS)

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	cover	stainless steel	
5	stem	PA66 (UL94HB)	black



ACTUATOR POSITION [ ]: MOMENTARY	
NORMAL	DOWN
OFF	[ON]
SCHEMATIC	
①	③
②	④

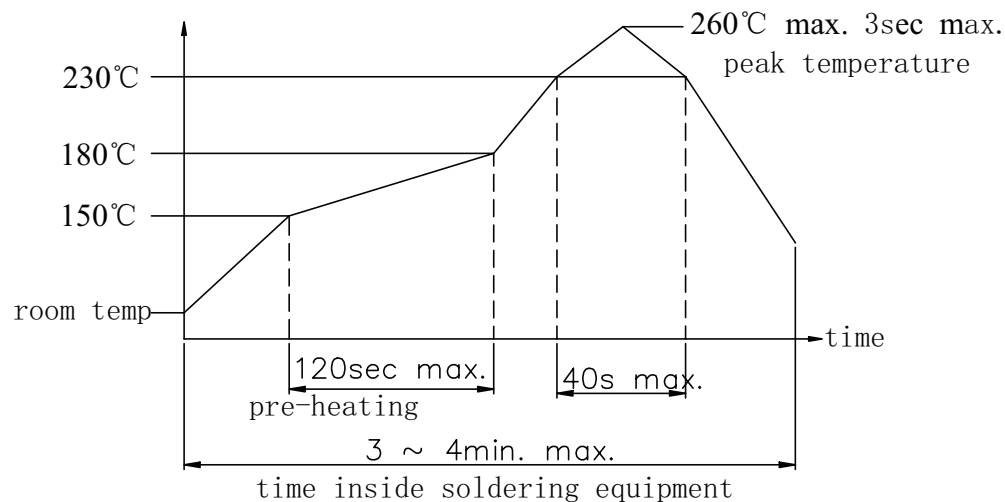


Operating Force Table		
Model	Press Force [N]	Return Force [N]
100	1.0 $\pm$ 0.3	>0.2
160	1.6 $\pm$ 0.5	>0.2
260	2.6 $\pm$ 0.5	>0.2

## SOLDERABILITY

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

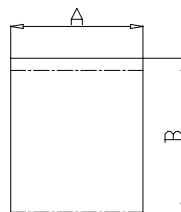
Notes: 1. Do not exceed 2 reflow cycles.



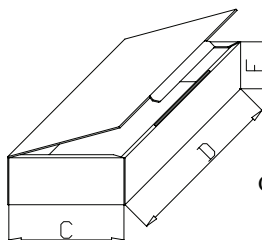
## PACKAGING

units: mm

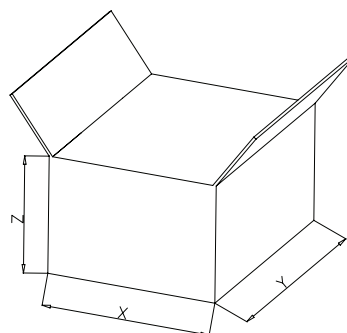
Bag Size: 190 x 160 mm  
 Carton Box Size: 445 x 350 x 280 mm  
 Bag QTY: 1,000 pcs per bag  
 Carton Box QTY: 60,000 pcs per carton



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
1.01	added 7.3 mm height model drawing	11/03/2021
1.02	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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