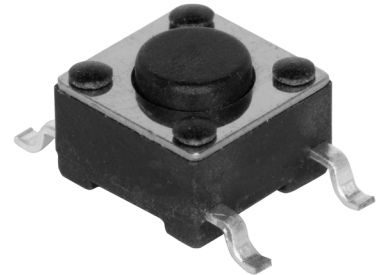


SERIES: TS04 | **DESCRIPTION:** TACTILE SWITCH

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 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

TS04 - 66 - XX - BK - XXX - SMT

Base Number

Actuator Height:

43 = 4.3 mm *73 = 7.3 mm
50 = 5.0 mm 75 = 7.5 mm
55 = 5.5 mm 85 = 8.5 mm
65 = 6.5 mm 95 = 9.5 mm
70 = 7.0 mm

Push Force:

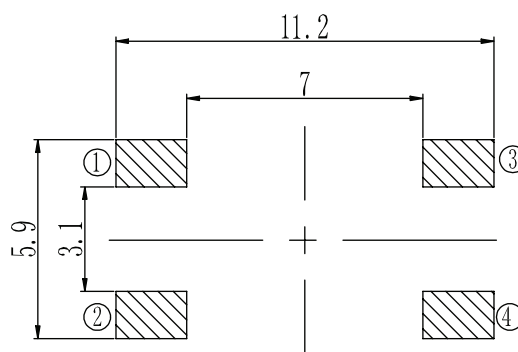
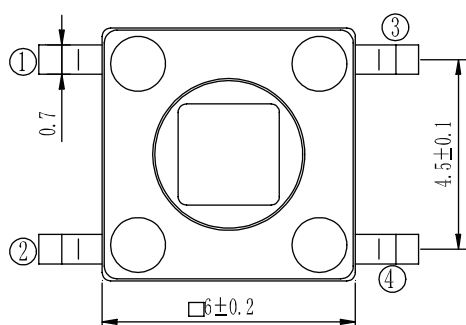
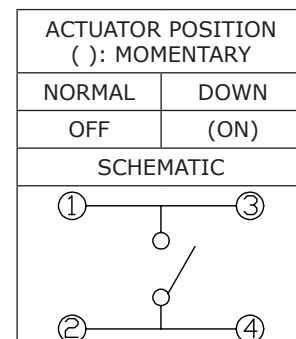
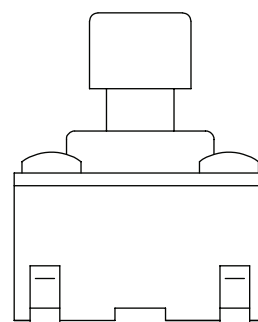
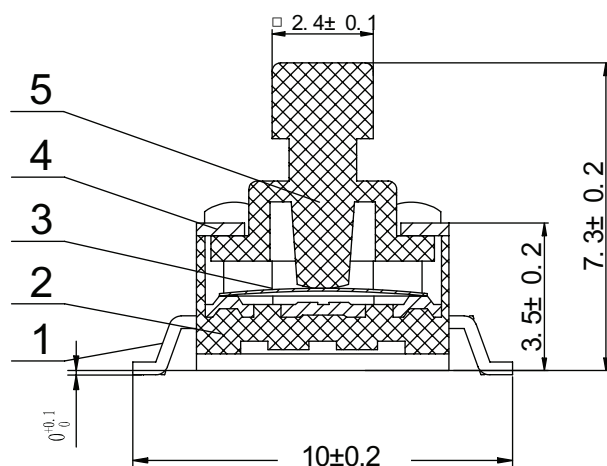
100 = 100 gf
160 = 160 gf
260 = 260 gf

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



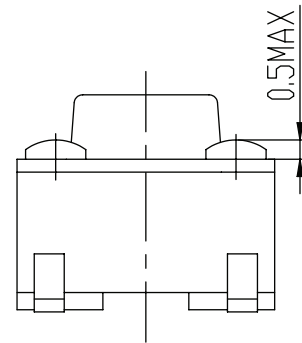
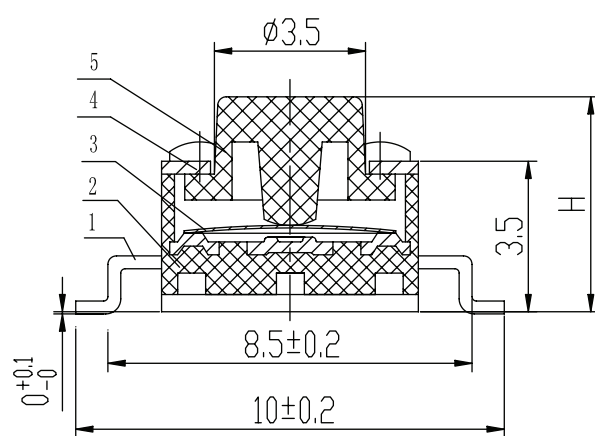
Recommended PCB Layout
Top View

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

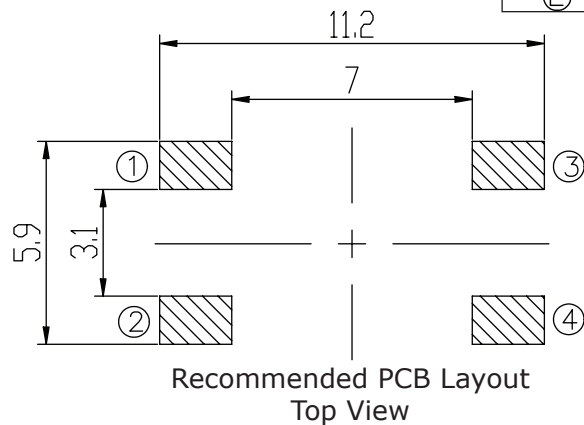
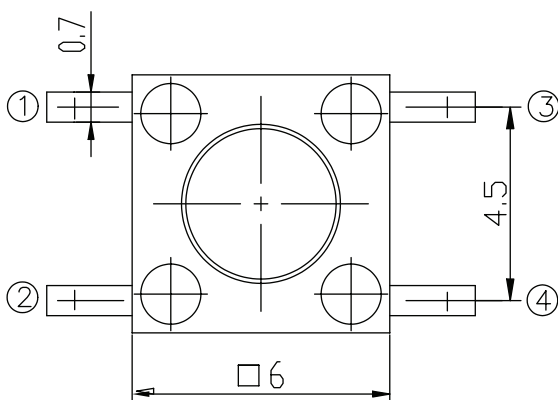
MECHANICAL DRAWING (ALL OTHER HEIGHT MODELS)

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



ACTUATOR POSITION (): MOMENTARY	
NORMAL	DOWN
OFF	(ON)
SCHEMATIC	
①	③
②	④

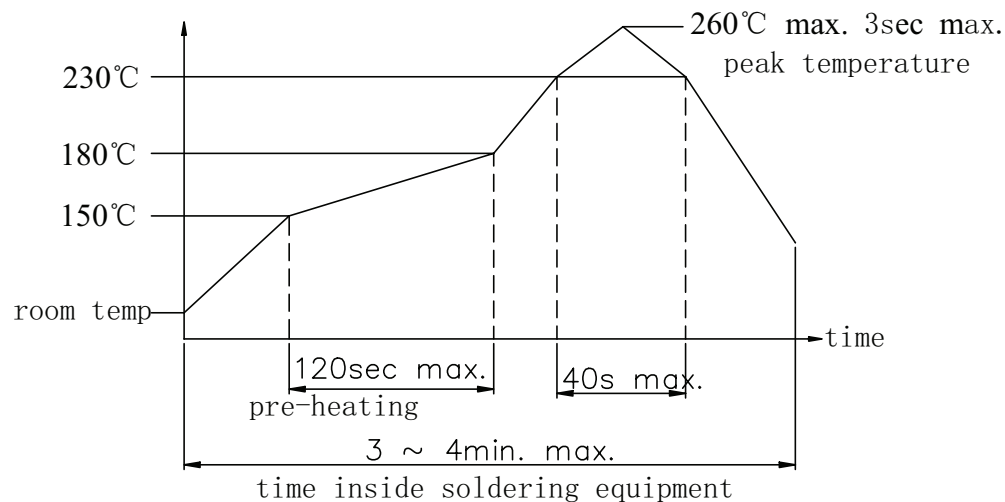


Operating Force Table		
Model	Press Force (N)	Return Force (N)
100	1.0 $\pm$ 0.3	>0.2
160	1.6 $\pm$ 0.5	>0.2
260	2.6 $\pm$ 0.5	>0.2

SOLDERABILITY

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

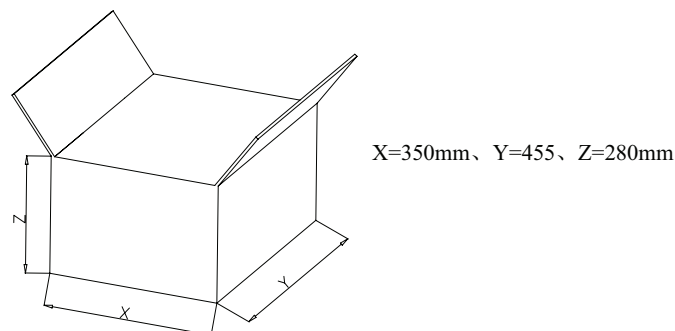
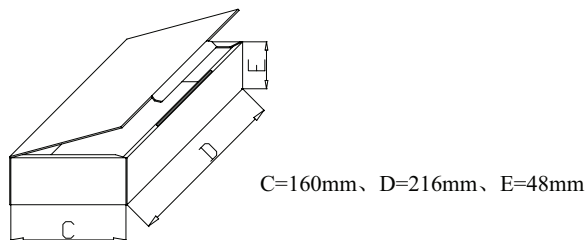
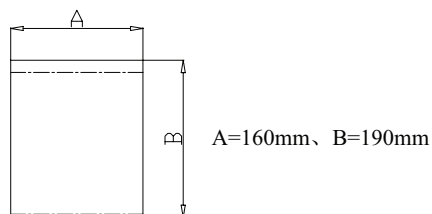
Notes: 1. Do not exceed 2 reflow cycles.



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



REVISION HISTORY

rev.	description	date
1.0	initial release	09/20/2021
1.01	added 7.3 mm height model drawing	11/03/2021

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

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