

SERIES: TS20 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- surface mount
- 2.5 mm actuator height
- 4.2 x 3.2 mm

**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		0.10	0.20	0.30	mm
operating temperature		-40		90	°C
storage temperature		-40		90	°C
life	rated load, 2 cycles/second, 1.5 times operating force		100,000		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

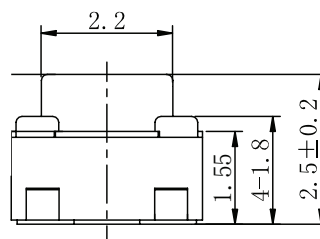
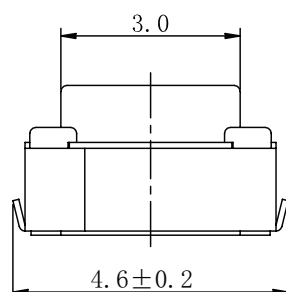
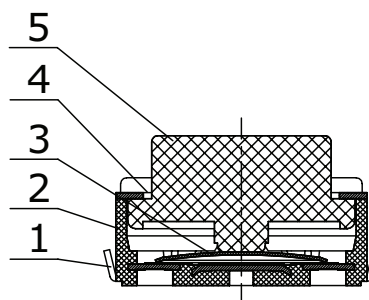
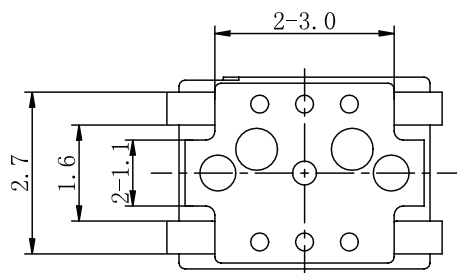
TS20 - 42 - 25 - WT - 160 - SMT - TR

Base Number

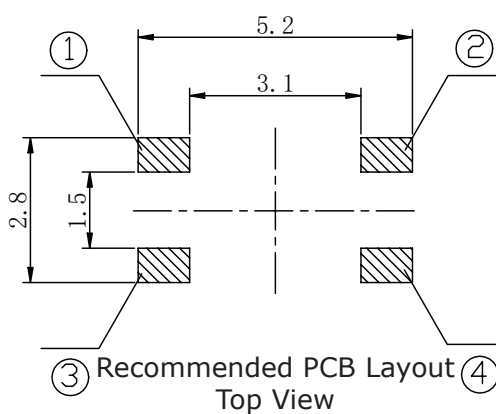
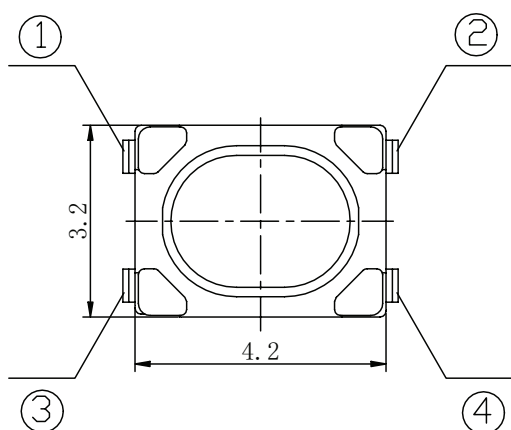
MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm
unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	phosphor copper	silver
2	housing	LCP (UL94V-0)	white
3	contacts	SUS	silver
4	cover	SUS	
5	stem	LCP (UL94V-0)	yellow



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

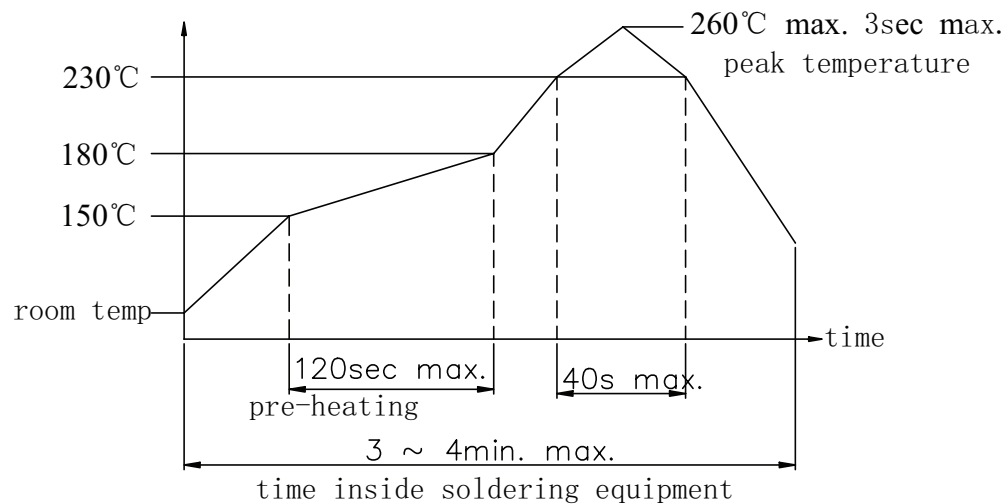


Operating Force Table		
Model	Press Force (gf)	Return Force (gf)
160	160 $\pm$ 50	>20

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.

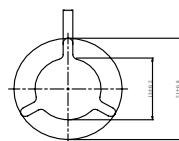
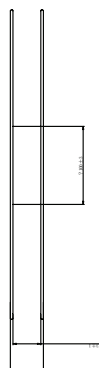
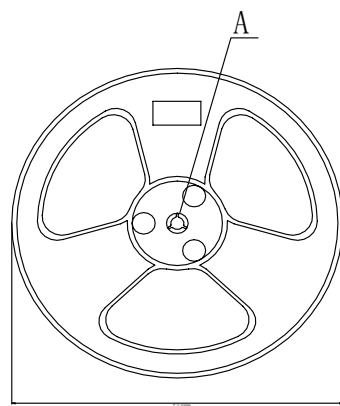
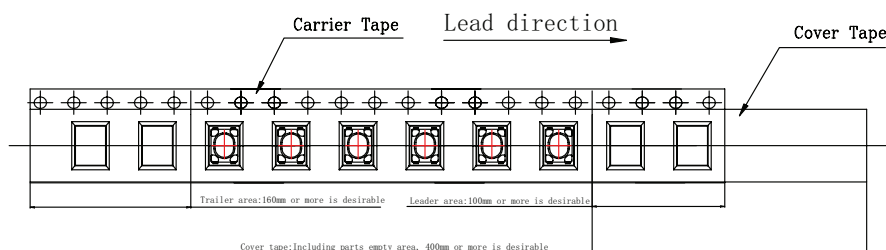
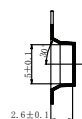
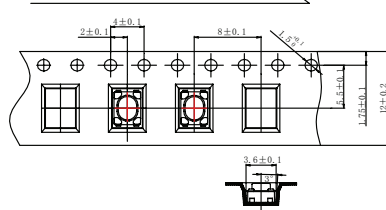


PACKAGING

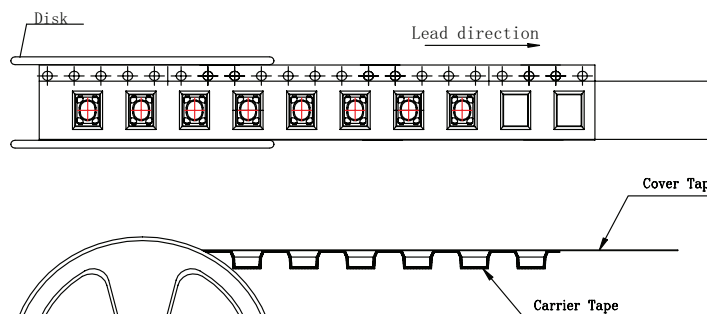
units: mm

Reel Size: Ø380 mm
 Reel QTY: 4,000 pcs per reel
 Carton Size: 395 x 395 x 205 mm
 Carton QTY: 40,000 pcs per carton

DRAWING DIRECTION



A Local Enlarge (5:1)



Volume diagram

REVISION HISTORY

rev.	description	date
1.0	initial release	05/10/2022

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

CUI DEVICES

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