

**SERIES:** TS21 | **DESCRIPTION:** TACTILE SWITCH

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**FEATURES**

- 160 or 260 gf models
- surface mount

**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	for 1 minute at 100 Vdc	100			MΩ
operating force	see force table				
actuator travel		0.05	0.15	0.25	mm
operating temperature		-30		80	°C
storage temperature		-40		90	°C
life	at 5 Vdc, 5 mA, 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**

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**TS21 - 34 - 035 - BK - XXX - SMT - TR**

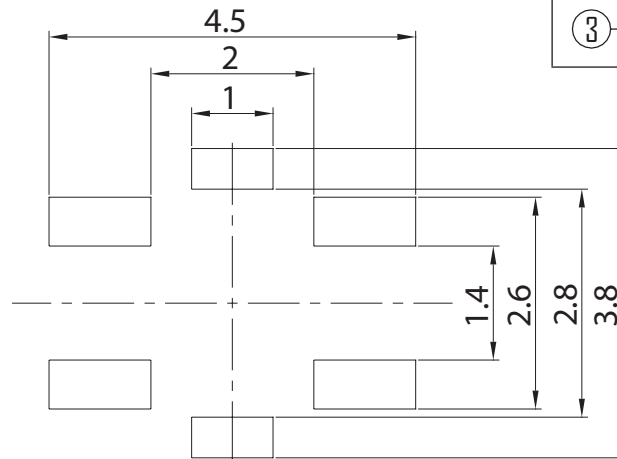
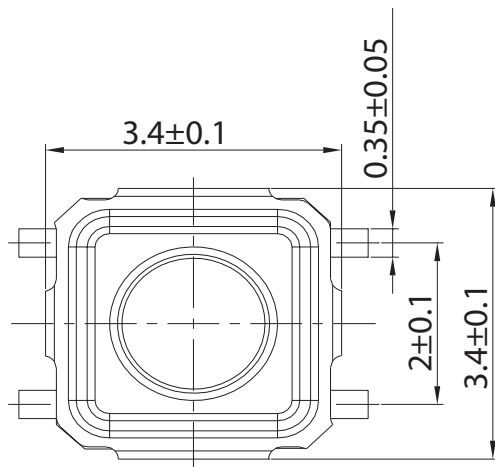
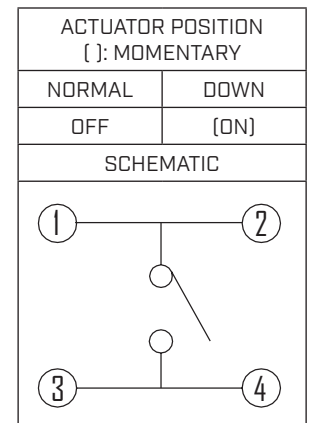
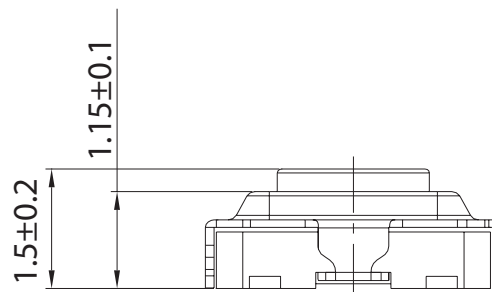
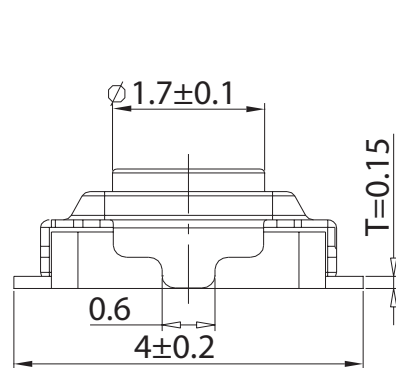
Base Number

Push Force:  
160 = 160 gf  
260 = 260 gf

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm  
unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminal	brass	silver
2	case	LCP (UL94V-0)	black
3	contact	SUS	silver
4	damp proof tape	polyimide	yellow
5	cover	SUS	CuSn
6	stem	LCP (UL94V-0)	black



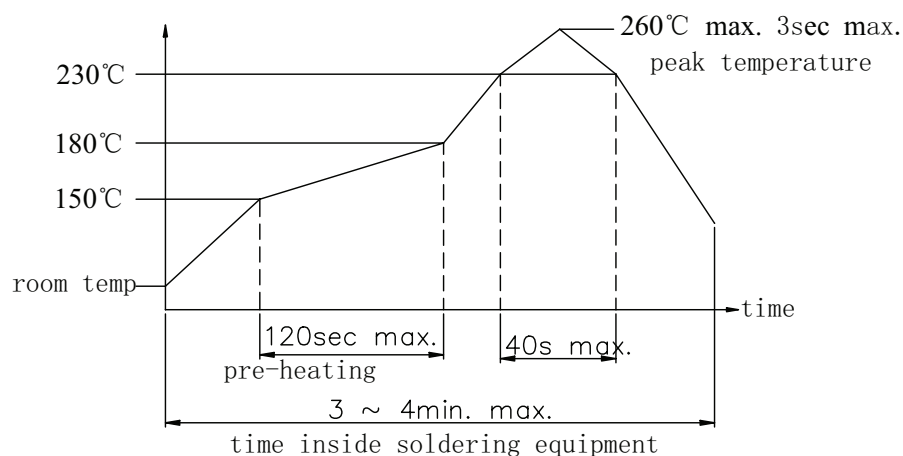
Recommended PCB Layout  
Top View

Operating Force Table		
Model	Press Force [gf]	Return Force [gf]
160	160 $\pm$ 50	>20
260	260 $\pm$ 70	>20

## SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
reel storage	-5~35°C, 25~80% humidity reel opened: use within 1 month reel unopened: use within 6 months				
reflow soldering	see reflow profile			260	°C

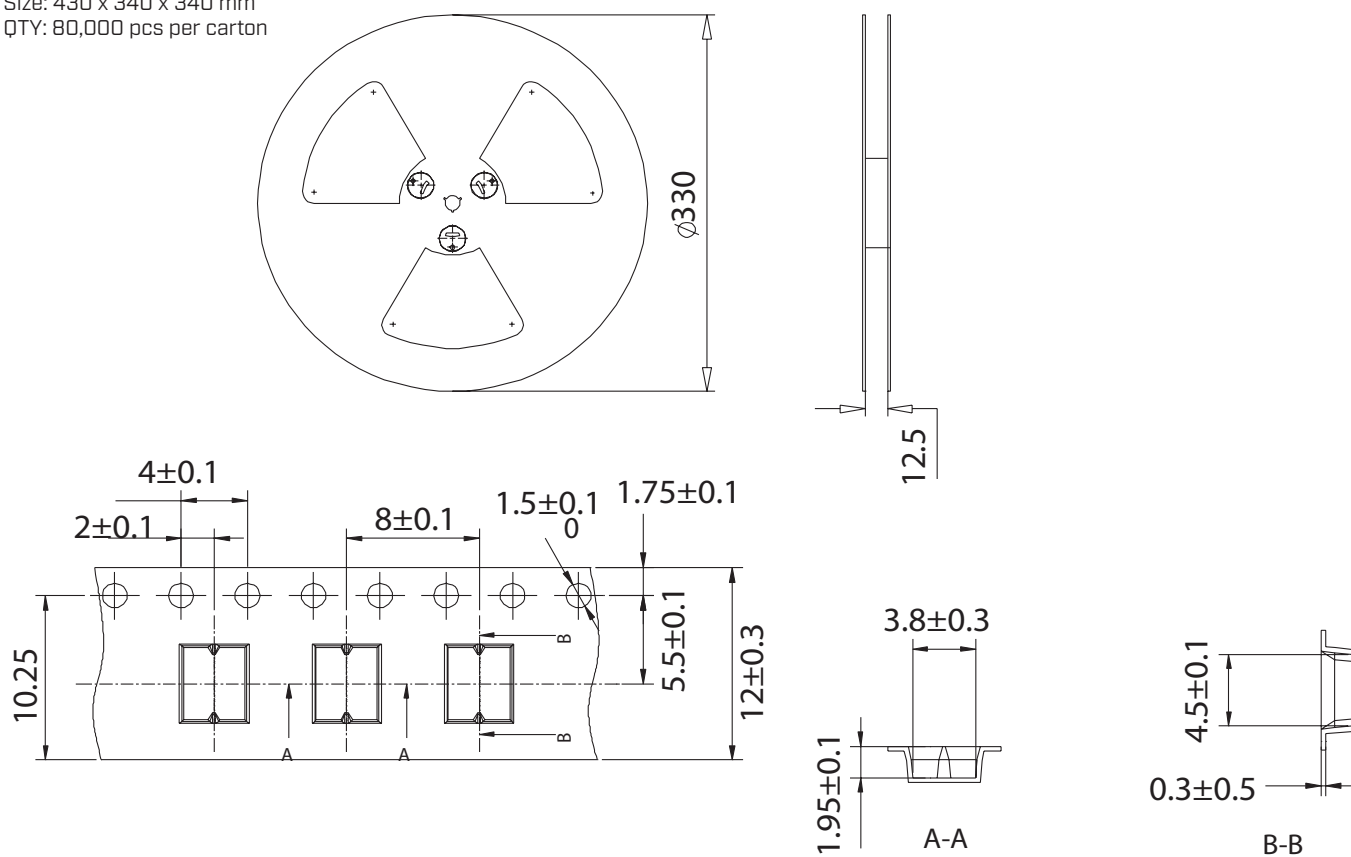
Note: 1. CUI Devices recommends usage of the product within 2 hours after T&R is opened. After 6 hours, CUI Devices recommends drying the parts prior to use.



## PACKAGING

units: mm

Reel Size: Ø330 mm  
 Reel QTY: 4,000 pcs per reel  
 Carton Size: 430 x 340 x 340 mm  
 Carton QTY: 80,000 pcs per carton



## REVISION HISTORY

rev.	description	date
1.0	initial release	06/14/2023

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



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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