



SERIES: TS19 | DESCRIPTION: TACTILE SWITCH

FEATURES

- surface mount
- IP67
- 100K & 300K life cycle options



SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage		1		12	Vdc
rated current		0.01		50	mA
withstanding voltage	for 1 minute		100		Vac
contact resistance	applying load of 2 times operating force at 5 Vdc, 10 mA			500	mΩ
insulation resistance	at 100 Vdc for 1 minute	100			MΩ
operating force	see force table				
actuator travel	70 gf models	0.05	0.10	0.15	mm
	120 gf models	0.06	0.11	0.16	mm
	180 & 240 gf models	0.08	0.13	0.18	mm
operating temperature		-30		85	°C
storage temperature		-40		90	°C
life	rated load, 60 cycles/min, 1.5 times operating force				
	100,000 cycle models		100,000		cycles
	300,000 cycle models		300,000		cycles
vibration	10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ				
flammability rating	see material table				
RoHS	yes				
IP level	IP67				

PART NUMBER KEY

TS19 - 32 - 06 - BK - XXX - X - SMT - TR -67

Base Number

Push Force:
*70 = 70 gf
120 = 120 gf
180 = 180 gf
240 = 240 gf

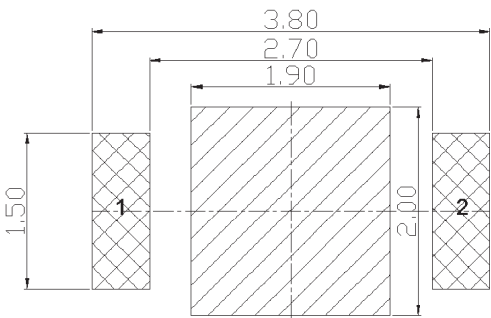
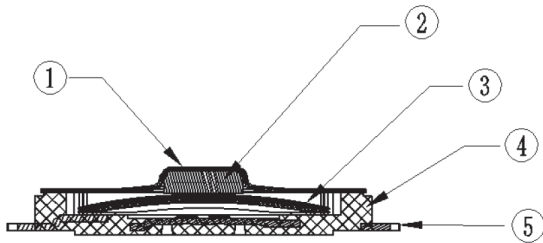
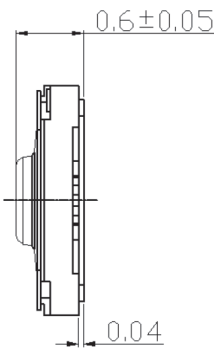
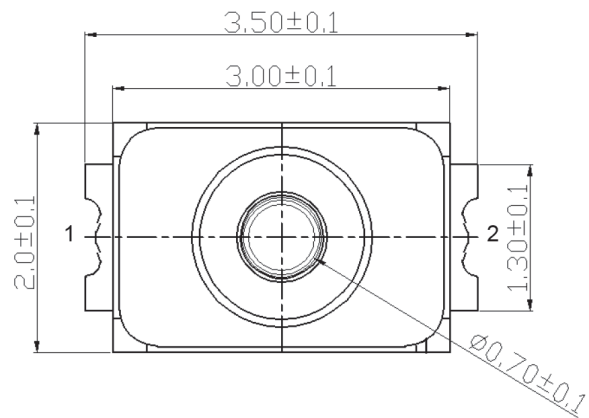
Life Cycles:
1=100,000 cycles
3=300,000 cycles

Note: *Only available with 100,000 cycle life.

MECHANICAL DRAWING

units: mm
tolerance: ±0.1 mm
unless otherwise noted

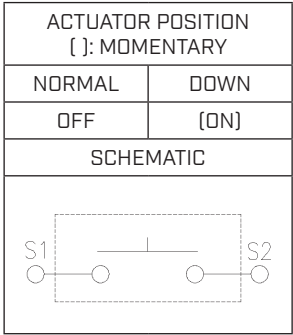
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	membrane	PA	natural
2	push	PA	black
3	contacts	SUS	silver
4	case	PA	black
5	terminals	copper	silver



 : Land Pattern Area

 : Brazing Prohibited Area

Recommended PCB Layout
Top View

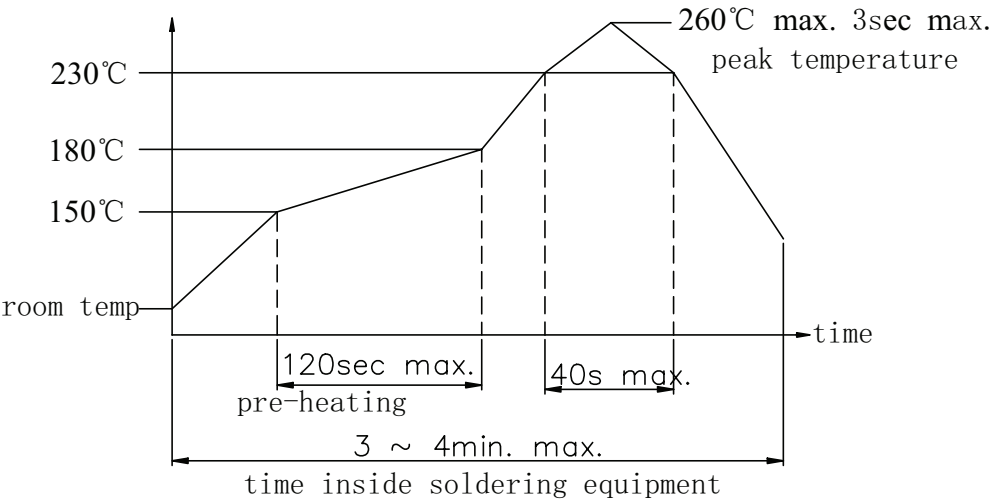


Operating Force Table		
Model	Press Force [gf]	Return Force [gf]
70	70±50	>20
120	120±50	>20
180	180±50	>20
240	240±50	>20

SOLDERABILITY

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

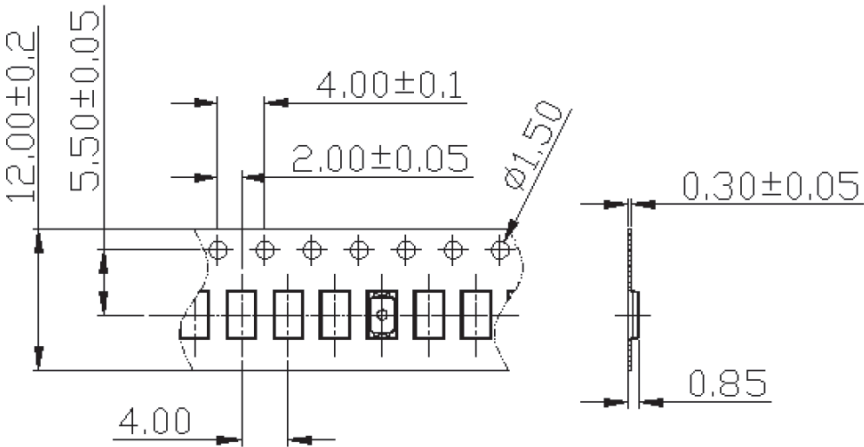
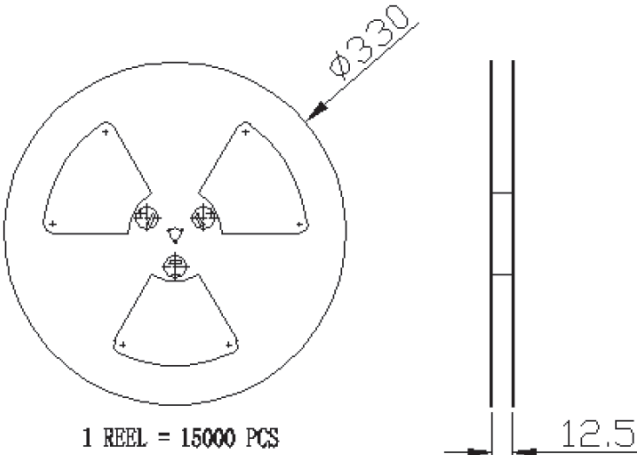
Notes: 1. Do not exceed 2 reflow cycles.



PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 15,000 pcs per reel
Carton Size: 440 x 350 x 350 mm
Carton QTY: 225,000 pcs per carton



REVISION HISTORY

rev.	description	date
1.0	initial release	05/10/2022
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024

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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