

# SERIES: TS19 | DESCRIPTION: TACTILE SWITCH

#### FEATURES

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



# ROHS

### **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 120 gf models 180 & 240 gf models	0.05 0.06 0.08	0.10 0.11 0.13	0.15 0.16 0.18	mm mm 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 300,000 cycle models		100,000 300,000		cycles 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
 Life Cycles: 1=100,000 cycles

3=300,000 cycles

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120 = 120 gf

180 = 180 gf 240 = 240 gf

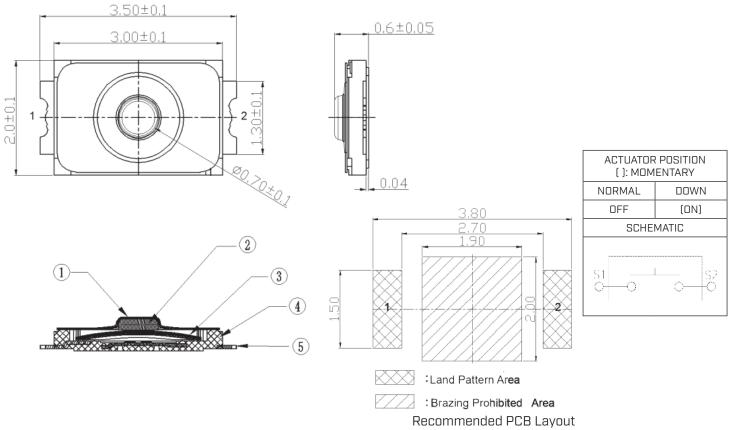
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## **MECHANICAL DRAWING**

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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



Top View

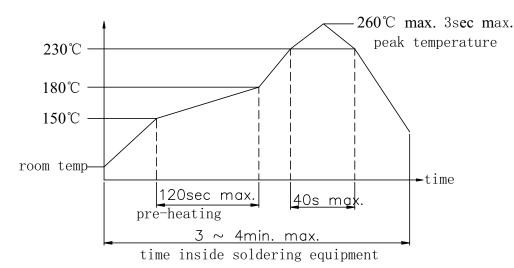
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Operating Force Table			
Model	Press Force (gf)	Return Force (gf)	
70	70±50	>20	
120	120±50	>20	
180	180±50	>20	
240	240±50	>20	

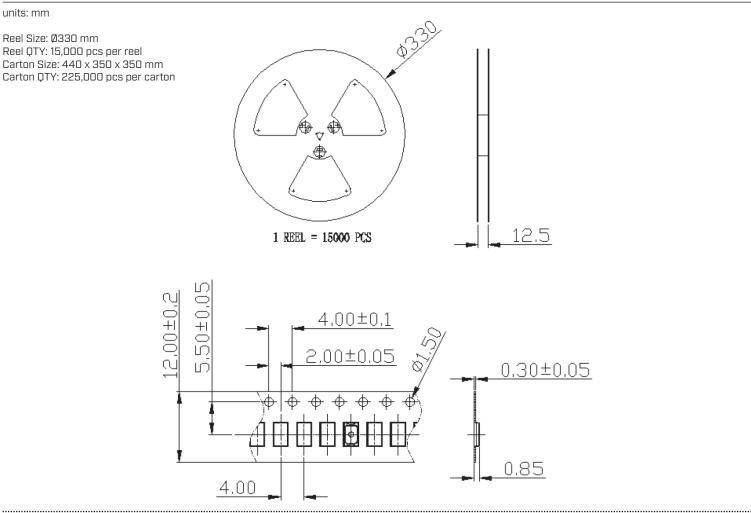
#### SOLDERABILITY

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

Notes: 1. Do not exceed 2 reflow cycles.



#### PACKAGING



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#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	05/10/2022
1.01	logo, datasheet style update	08/05/2022

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.



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