

date 08/05/2022

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SERIES: TS02 | DESCRIPTION: TACTILE SWITCH

FEATURES

- · through hole
- · long crimped pins
- · short crimped pins





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			МΩ
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				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
wave soldering	for maximum 5 seconds			260	°C

PART NUMBER KEY

TS02 - 66 - XX - BK - XXX - XXX - D

Base Number Actuator Height:

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43 = 4.3 mm 80 = 8.0 mm 130 = 13.0 mm 50 = 5.0 mm 90 = 9.0 mm *140 = 14.0 mm *55 = 5.5 mm 95 = 9.5 mm 150 = 15.0 mm 60 = 6.0 mm 100 = 10.0 mm 153 = 15.3 mm

73 = 7.3 mm *120 = 12.0 mm 170 = 17.0 mm

100 = 100 qf160 = 160 gf 260 = 260 gf

Push Force:

SCR = Short Crimped LCR = Long Crimped

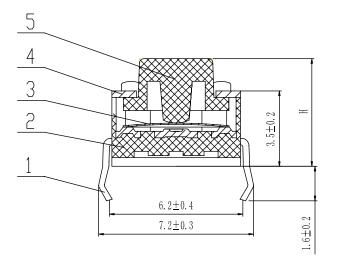
Terminals:

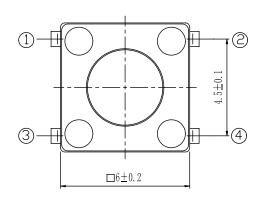
Note: *Only available with LCR (long crimped) terminals.

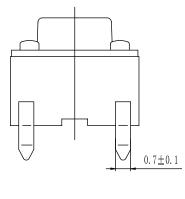
MECHANICAL DRAWING (SCR VERSION)

units: mm tolerance: ±0.2 mm unless otherwise noted

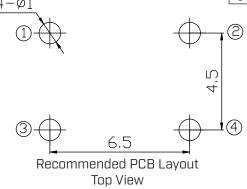
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	PA66 (UL94HB)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	PA66 (UL94HB)	black







ACTUATOR POSITION (): MOMENTARY				
NORMAL	DOWN			
OFF	(ON)			
SCHEMATIC				
1				
30-	<u> </u>			

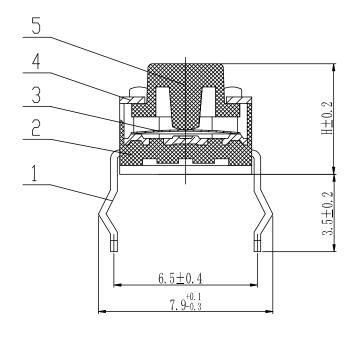


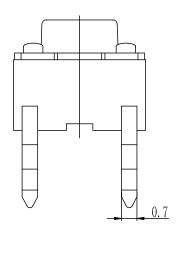
Operting Force Table			
Model	Press Force (N)	Return Force (N)	
100	1.0±0.3	>0.2	
160	1.6±0.5	>0.2	
260	2.6±0.5	>0.2	

MECHANICAL DRAWING (LCR VERSION)

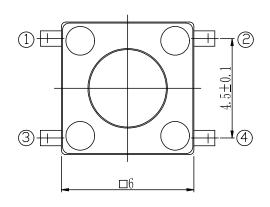
units: mm tolerance: ±0.2 mm unless otherwise noted

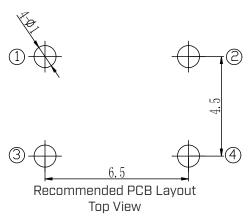
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	PA66 (UL94HB)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	PA66 (UL94HB)	black





ACTUATOR POSITION (): MOMENTARY			
NORMAL	DOWN		
OFF	(ON)		
SCHEMATIC			
1	<u> </u>		
30-	(4)		



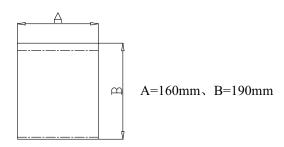


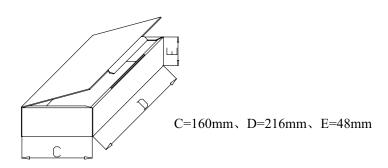
Operting Force Table		
Model	Press Force (N)	Return Force (N)
100	1.0±0.3	>0.2
160	1.6±0.5	>0.2
260	2.6±0.5	>0.2

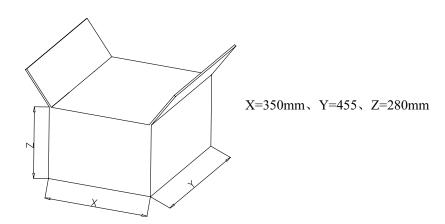
PACKAGING

units: mm

Bag Size: 190 x 160 mm Carton Box Size: 445 x 350 x 280 mm Bag QTY: 1,000 pcs per box Carton Box QTY: 60,000 pcs per bag







Additional Resources: Product Page | 3D Model | PCB Footprint

CUI DEVICES | SERIES: TS02 | DESCRIPTION: TACTILE SWITCH

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REVISION HISTORY

rev.	description	date
1.0	initial release	09/21/2021
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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