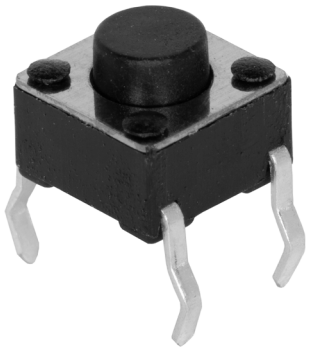
CUDEVICES

SERIES: TS02 | DESCRIPTION: TACTILE SWITCH

FEATURES

- through hole
- long crimped pins
- short crimped pins



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		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		0.15	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:
43 = 4.3 mm
50 = 5.0 mm
*55 = 5.5 mm
60 = 6.0 mm
70 = 7.0 mm
73 = 7.3 mm
80 = 8.0 mm
90 = 9.0 mm
95 = 9.5 mm
100 = 10.0 mm
110 = 11.0 mm
*120 = 12.0 mm
130 = 13.0 mm
*140 = 14.0 mm
150 = 15.0 mm
153 = 15.3 mm
*160 = 16.0 mm
170 = 17.0 mm

Push Force:
100 = 100 gf
160 = 160 gf
260 = 260 gf

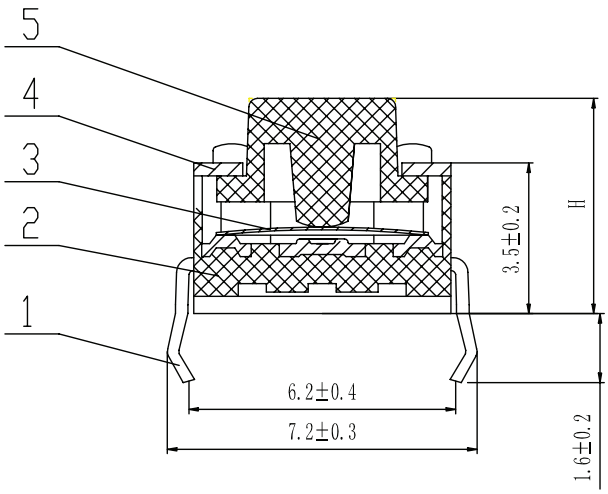
Terminals:
SCR = Short Crimped
LCR = Long Crimped

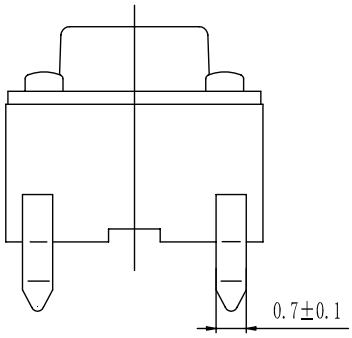
Note: *Only available with LCR (long crimped) terminals.

MECHANICAL DRAWING (SCR VERSION)

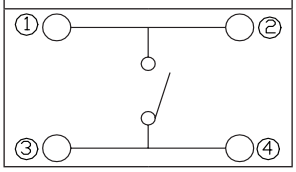
units: mm
tolerance: ±0.2 mm
unless otherwise noted

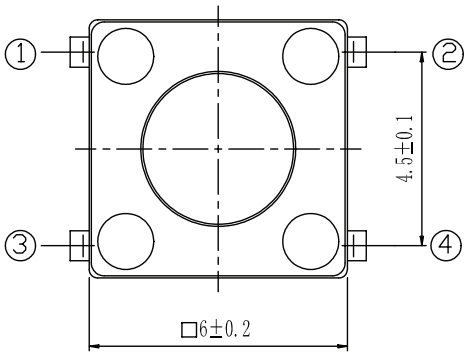
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	PA66 (UL94HB)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	PA66 (UL94HB)	black

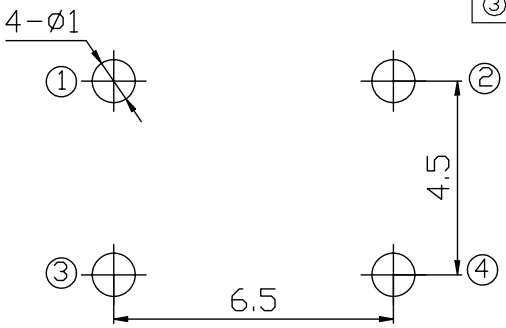




ACTUATOR POSITION [ ]: MOMENTARY	
NORMAL	DOWN
OFF	[ON]
SCHEMATIC	







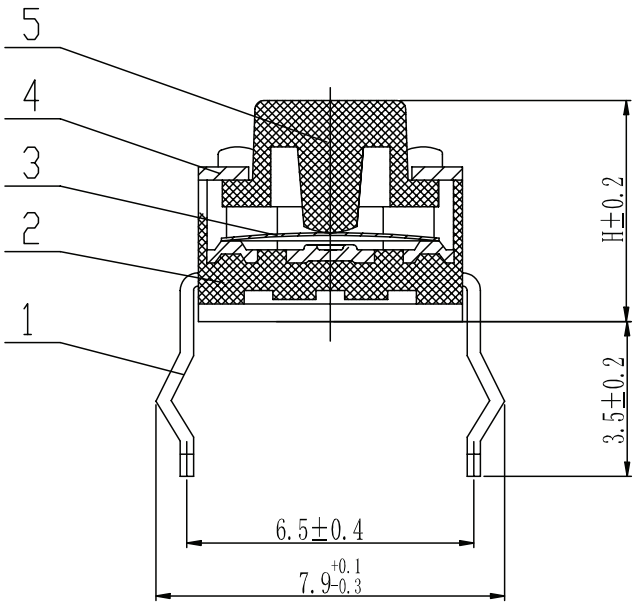
Recommended PCB Layout
Top View

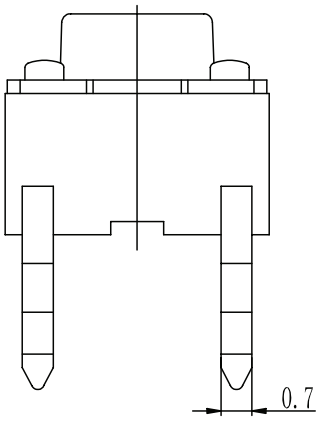
Operting Force Table		
Model	Press Force (N)	Return Force (N)
100	1.0±0.3	>0.2
160	1.6±0.5	>0.2
260	2.6±0.5	>0.2

MECHANICAL DRAWING (LCR VERSION)

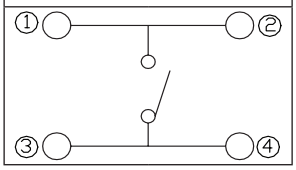
units: mm
tolerance: ±0.2 mm
unless otherwise noted

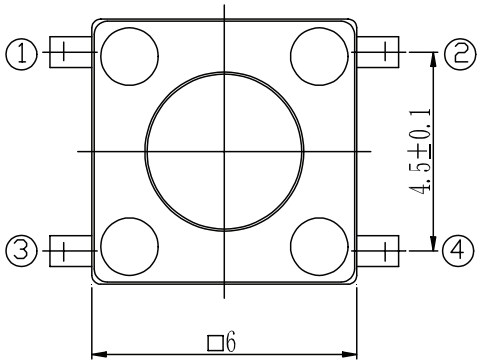
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	PA66 (UL94HB)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	PA66 (UL94HB)	black

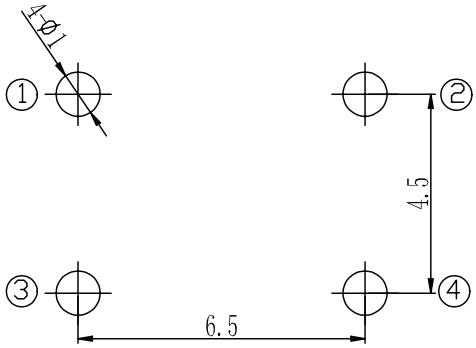




ACTUATOR POSITION ( ): MOMENTARY	
NORMAL	DOWN
OFF	(ON)
SCHEMATIC	







Recommended PCB Layout
Top View

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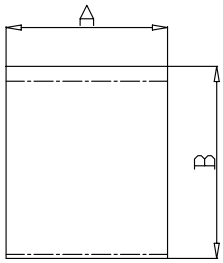
Model	Press Force (N)	Return Force (N)
100	1.0±0.3	>0.2
160	1.6±0.5	>0.2
260	2.6±0.5	>0.2

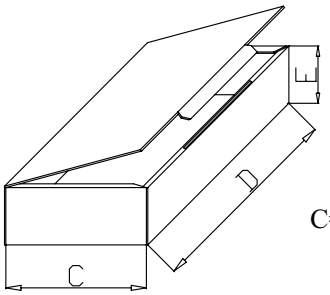
PACKAGING

units: mm

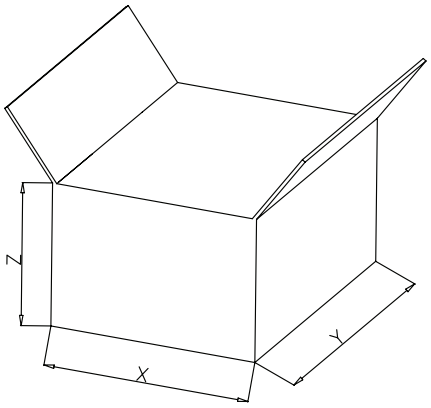
Bag Size: 190 x 160 mm
Carton Box Size: 445 x 350 x 280 mm
Bag QTY: 1,000 pcs per box
Carton Box QTY: 60,000 pcs per bag



A=160mm、B=190mm



C=160mm、D=216mm、E=48mm



X=350mm、Y=455、Z=280mm

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.

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