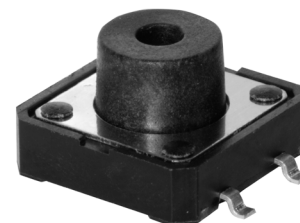


**SERIES:** TS16 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- black and red actuator options
- surface mount
- 7.5~9.5 mm actuator

**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		0.25	0.35	0.45	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		100,000		cycles
	160 gf models		80,000		cycles
	260 gf models		60,000		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**

**TS16 - 1212 - XX - XX - XXX - SMT - TR**

Base Number

Actuator Height:

75 = 7.5 mm

85 = 8.5 mm

95 = 9.5 mm

Actuator Color:

R = red

BK = black

Push Force:

100 = 100 gf

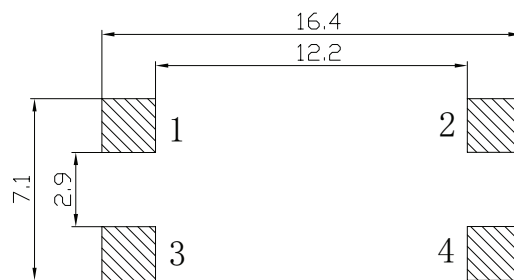
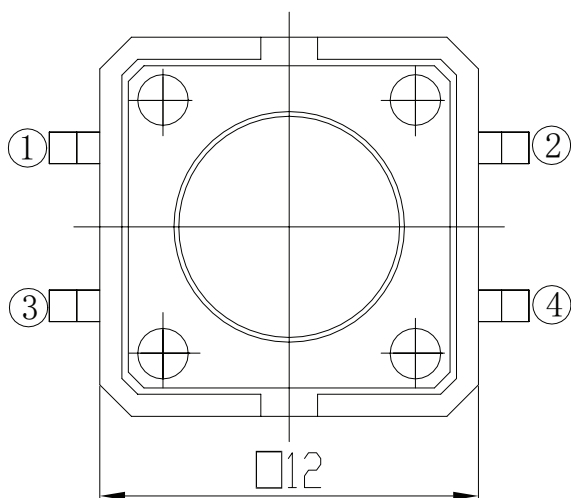
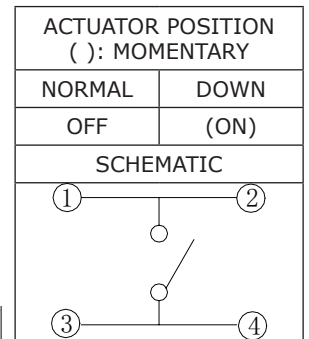
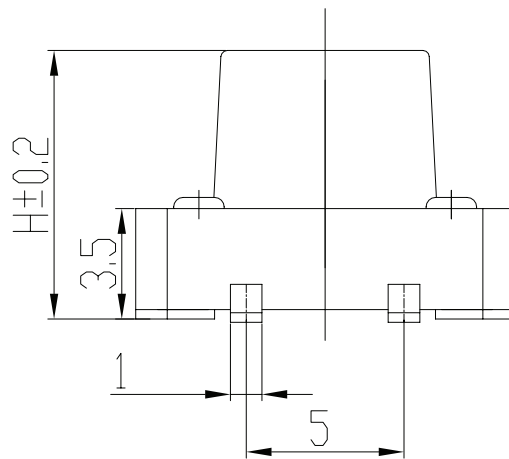
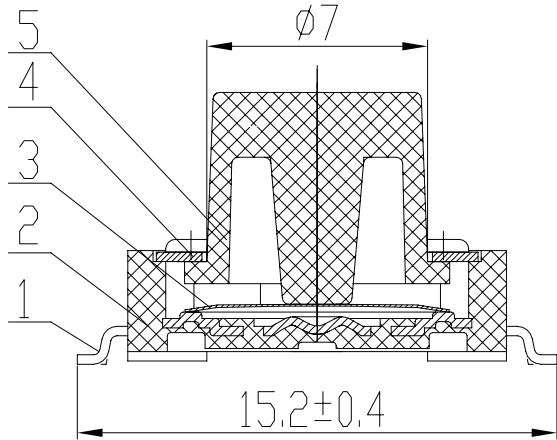
160 = 160 gf

260 = 260 gf

## MECHANICAL DRAWING

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

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	FR52 (UL94V-0)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	FR52 (UL94V-0)	



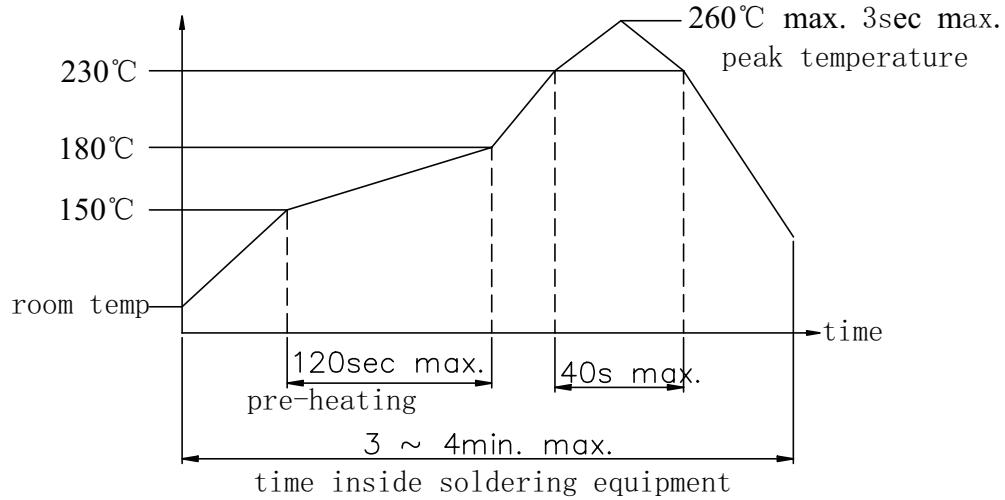
Recommended PCB Layout  
Top View

Operating Force Table		
Model	Press Force (gf)	Return Force (gf)
100	100 $\pm$ 30	>20
160	160 $\pm$ 50	>20
260	260 $\pm$ 50	>20

## SOLDERABILITY

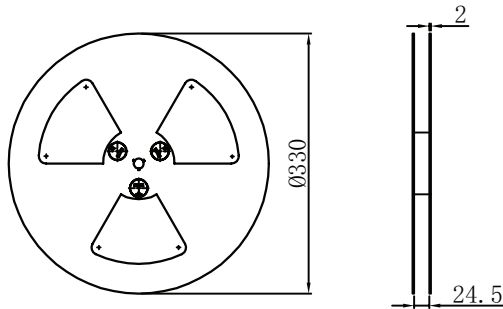
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
reflow soldering <sup>1</sup>	see reflow profile			260	°C

Notes: 1. Do not exceed 2 reflow cycles.

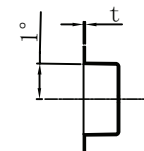
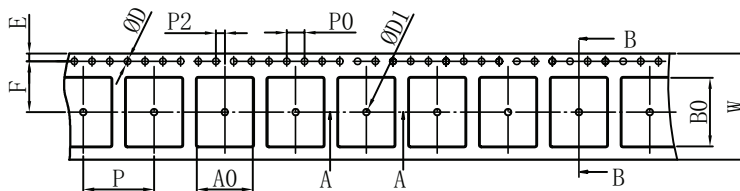


## PACKAGING (7.5 HEIGHT MODEL)

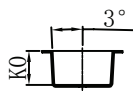
Item	W	A0	B0	K0	P
DIM(mm)	24.0 <sup>+0.30/-0.10</sup>	12.2 <sup>+0.10/-0.10</sup>	15.5 <sup>+0.10/-0.10</sup>	7.7 <sup>+0.10/-0.10</sup>	16.0 <sup>+0.10/-0.10</sup>
Item	F	E	D	D1	P0
DIM(mm)	11.5 <sup>+0.10/-0.10</sup>	1.75 <sup>+0.10/-0.10</sup>	1.50 <sup>+0.10/-0.0</sup>	1.50 <sup>+0.10/-0.0</sup>	4.0 <sup>+0.10/-0.10</sup>
Item	P2	t	--	--	--
DIM(mm)	2.0 <sup>+0.10/-0.10</sup>	0.4 <sup>+0.05/-0.05</sup>	--	--	--



Packaging Table			
Actuator Height Models (mm)	Reel QTY	Carton Size (XxYxZ) (mm)	Carton QTY
7.5	500	340 x 430 x 340	7,000



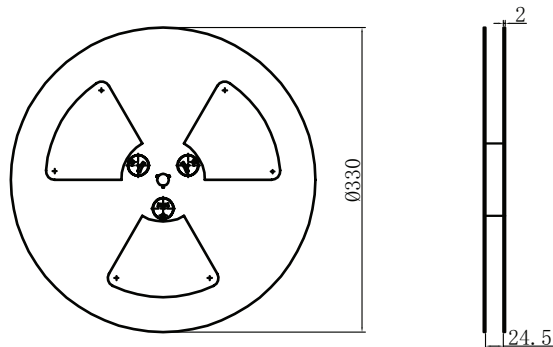
SECTION B-B



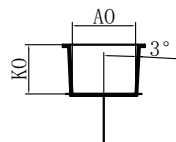
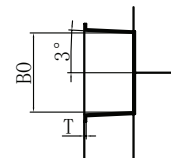
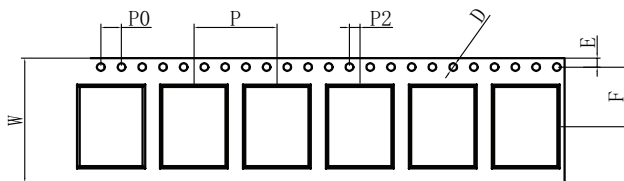
SECTION A-A

### PACKAGING (8.5 & 9.5 HEIGHT MODELS)

Item	W	A0	B0	K0	P
DIM(mm)	24.0 <sup>+0.30/-0.30</sup>	12.3 <sup>+0.10/-0.10</sup>	15.6 <sup>+0.10/-0.10</sup>	9.5 <sup>+0.10/-0.10</sup>	16.0 <sup>+0.10/-0.10</sup>
Item	F	E	D	P0	P2
DIM(mm)	11.5 <sup>+0.10/-0.10</sup>	1.75 <sup>+0.10/-0.10</sup>	1.50 <sup>+0.10/-0.0</sup>	4.0 <sup>+0.10/-0.10</sup>	2.0 <sup>+0.10/-0.10</sup>
Item	t	--	--	--	--
DIM(mm)	0.4 <sup>+0.05/-0.05</sup>	--	--	--	--



Packaging Table			
Actuator Height Models (mm)	Reel QTY	Carton Size (XxYxZ) (mm)	Carton QTY
8.5~ 9.5	400	340 x 430 x 340	5,600



## REVISION HISTORY

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rev.	description	date
1.0	initial release	04/13/2022

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

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# CUI DEVICES

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