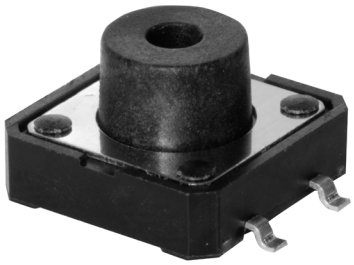
CUI Devices is now Same Sky! Learn More

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SERIES: TS16 | DESCRIPTION: TACTILE SWITCH

FEATURES

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



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		0.25	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 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				

PART NUMBER KEY

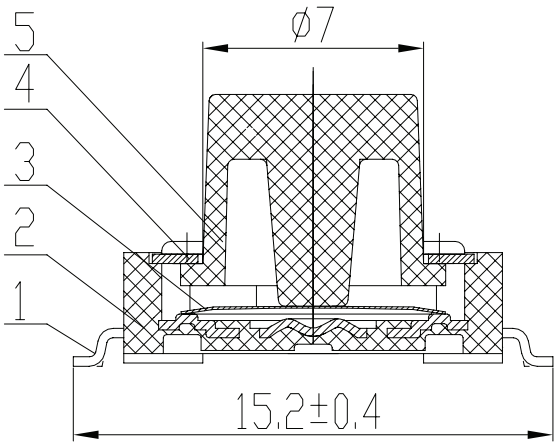
TS16 - 1212 - XX - XX - XXX - SMT - TR

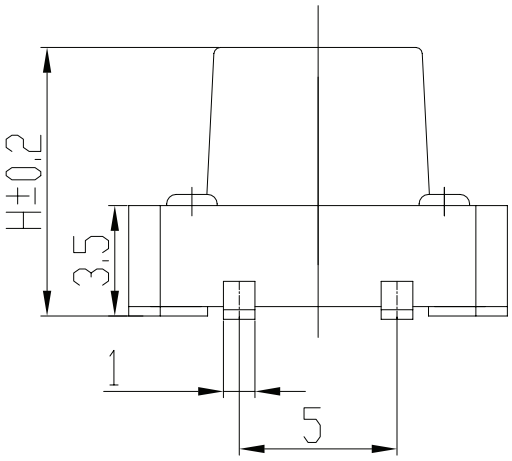
- Base Number
- Actuator Height:
  75 = 7.5 mm
  85 = 8.5 mm
  95 = 9.5 mm
- Actuator Color:
  R = red
  BK = black
- Push Force:
  100 = 100 gf
  160 = 160 gf
  260 = 260 gf

MECHANICAL DRAWING

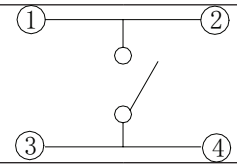
units: mm
tolerance: ±0.2 mm
unless otherwise noted

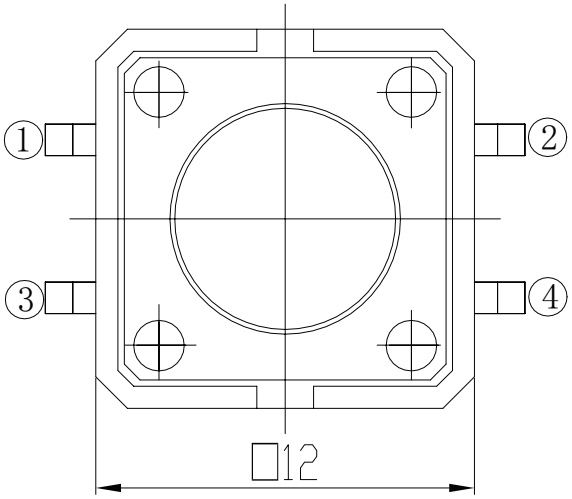
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	FR52 (UL94V-0)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	FR52 (UL94V-0)	

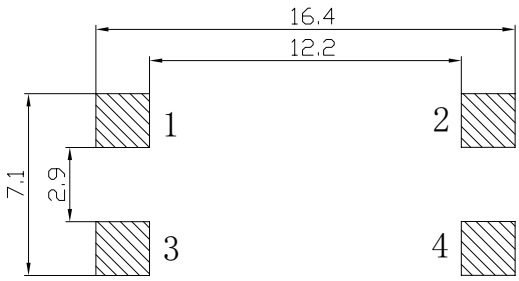




ACTUATOR POSITION ( ): MOMENTARY	
NORMAL	DOWN
OFF	(ON)
SCHEMATIC	







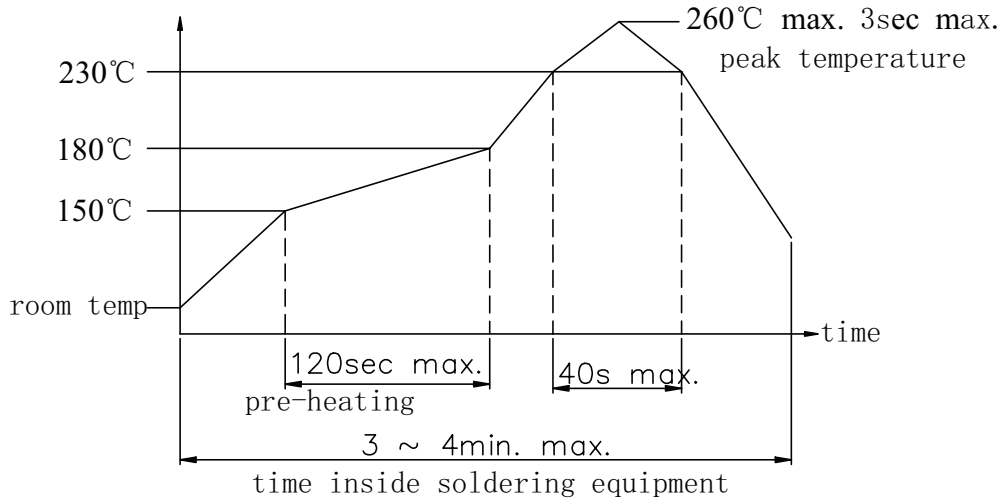
Recommended PCB Layout
Top View

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

SOLDERABILITY

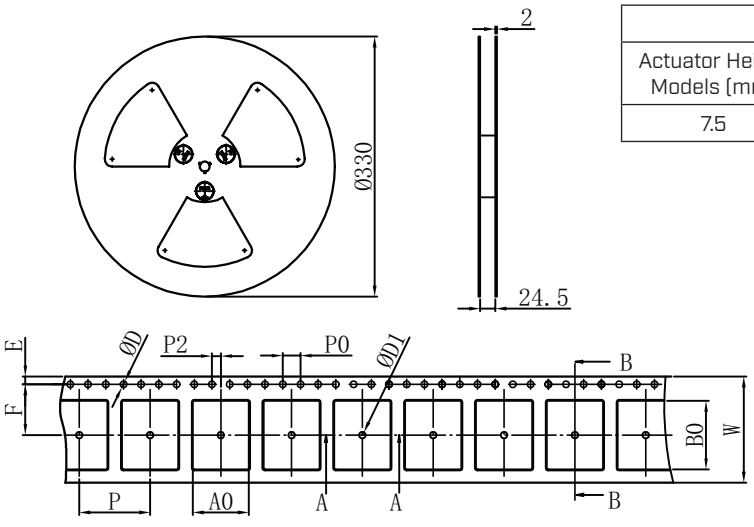
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
reflow soldering[1]	see reflow profile			260	°C

Notes: 1. Do not exceed 2 reflow cycles.

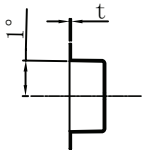


PACKAGING (7.5 HEIGHT MODEL)

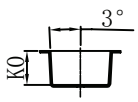
Item	W	A0	B0	K0	P
DIM(mm)	$24.0^{+0.30/-0.10}$	$12.2^{+0.10/-0.10}$	$15.5^{+0.10/-0.10}$	$7.7^{+0.10/-0.10}$	$16.0^{+0.10/-0.10}$
Item	F	E	D	D1	P0
DIM(mm)	$11.5^{+0.10/-0.10}$	$1.75^{+0.10/-0.10}$	$1.50^{+0.10/-0.0}$	$1.50^{+0.10/-0.0}$	$4.0^{+0.10/-0.10}$
Item	P2	t	--	--	--
DIM(mm)	$2.0^{+0.10/-0.10}$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



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



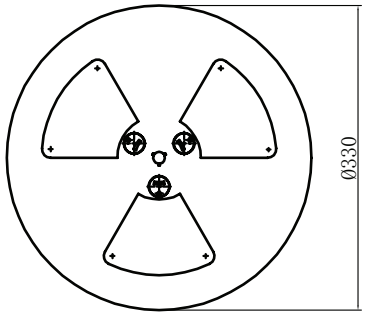
SECTION B-B

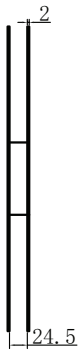


SECTION A-A

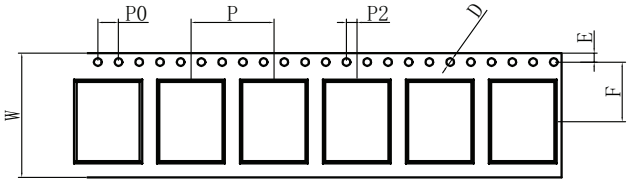
PACKAGING (8.5 & 9.5 HEIGHT MODELS)

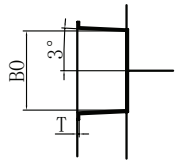
Item	W	A0	B0	K0	P
DIM(mm)	$24.0^{+0.30/-0.30}$	$12.3^{+0.10/-0.10}$	$15.6^{+0.10/-0.10}$	$9.5^{+0.10/-0.10}$	$16.0^{+0.10/-0.10}$
Item	F	E	D	P0	P2
DIM(mm)	$11.5^{+0.10/-0.10}$	$1.75^{+0.10/-0.10}$	$1.50^{+0.10/-0.0}$	$4.0^{+0.10/-0.10}$	$2.0^{+0.10/-0.10}$
Item	t	--	--	--	--
DIM(mm)	$0.4^{+0.05/-0.05}$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

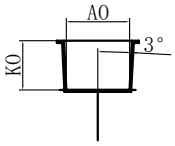




Packaging Table			
Actuator Height Models (mm)	Reel QTY	Carton Size (XxYxZ) (mm)	Carton QTY
8.5~ 9.5	400	340 x 430 x 340	5,600







REVISION HISTORY

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

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