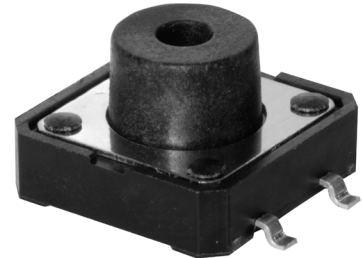


**SERIES:** TS16 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- 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 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

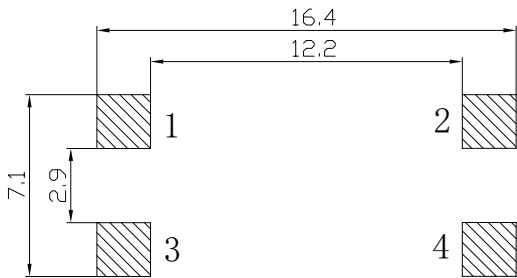
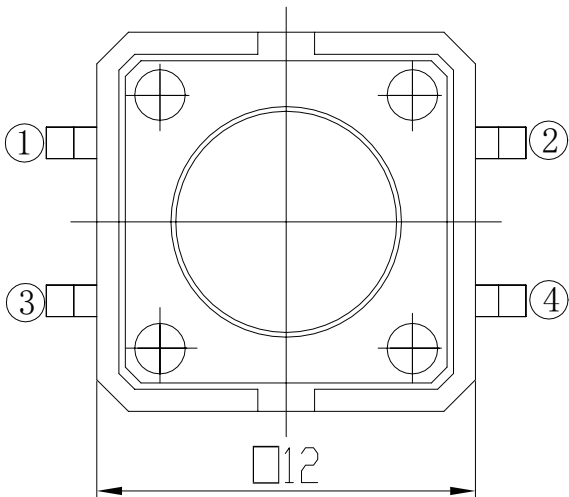
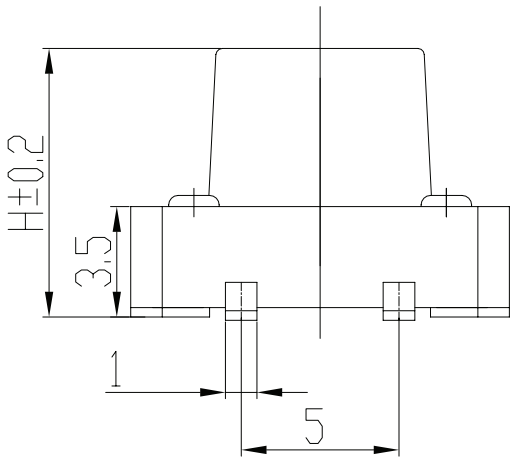
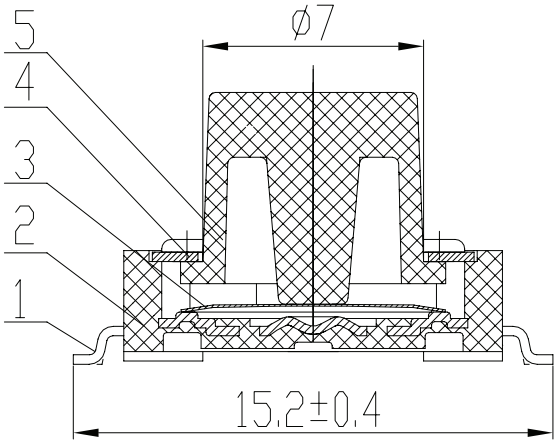
160 = 160 gf

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]	



Recommended PCB Layout
Top View

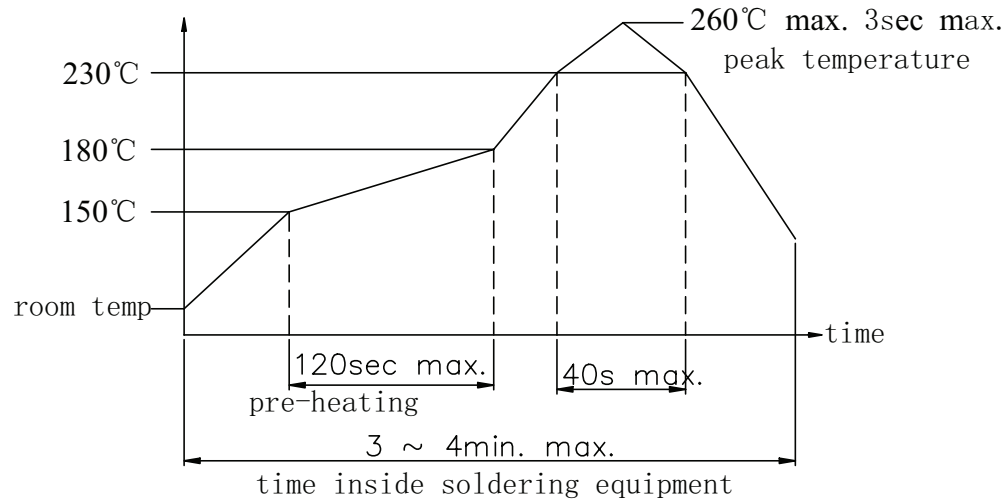
ACTUATOR POSITION []: MOMENTARY	
NORMAL	DOWN
OFF	[ON]
SCHEMATIC	
①	②
③	④

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

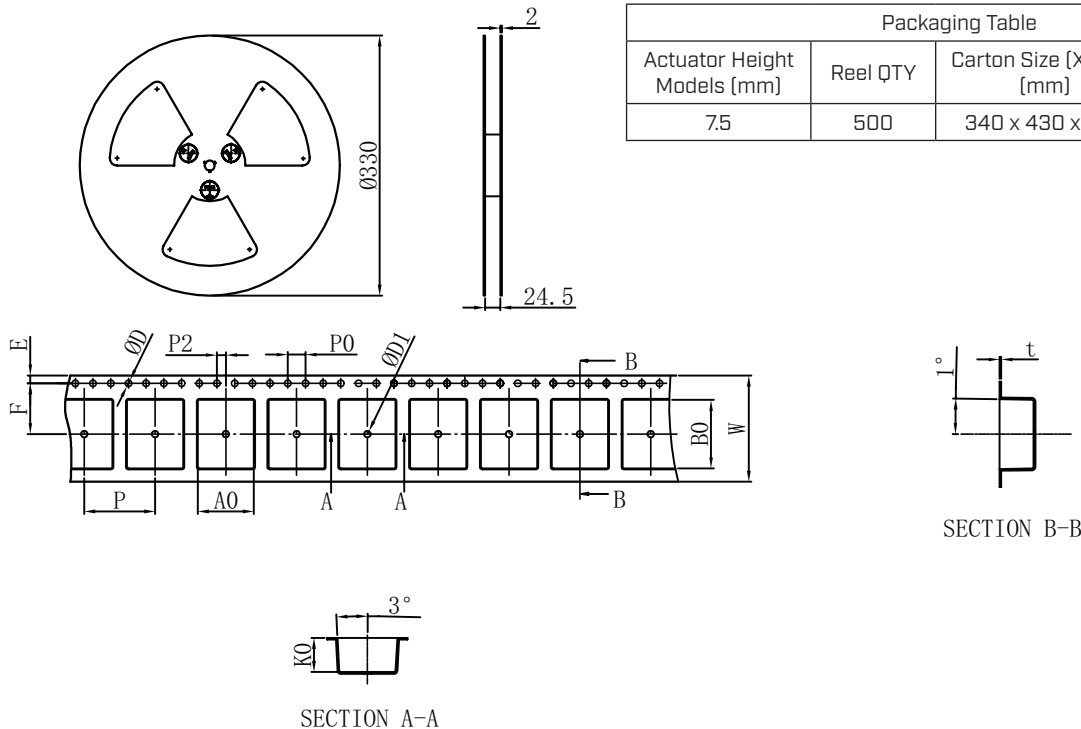
Notes: 1. Do not exceed 2 reflow cycles.



PACKAGING (7.5 HEIGHT MODEL)

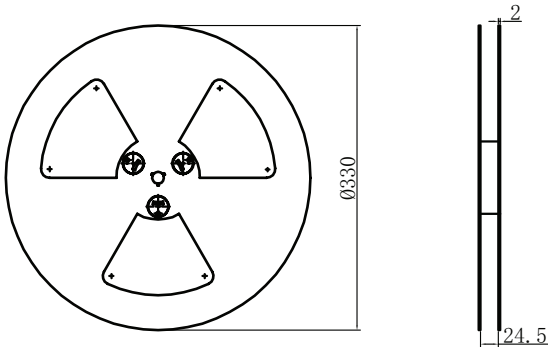
Item	W	A0	B0	K0	P
DIM[mm]	24.0 ^{+0.30/-0.10}	12.2 ^{+0.10/-0.10}	15.5 ^{+0.10/-0.10}	7.7 ^{+0.10/-0.10}	16.0 ^{+0.10/-0.10}
Item	F	E	D	D1	P0
DIM[mm]	11.5 ^{+0.10/-0.10}	1.75 ^{+0.10/-0.10}	1.50 ^{+0.10/-0.0}	1.50 ^{+0.10/-0.0}	4.0 ^{+0.10/-0.10}
Item	P2	t	--	--	--
DIM[mm]	2.0 ^{+0.10/-0.10}	0.4 ^{+0.05/-0.05}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

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

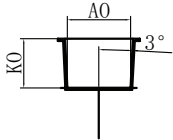
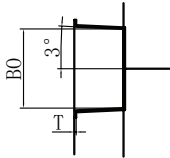
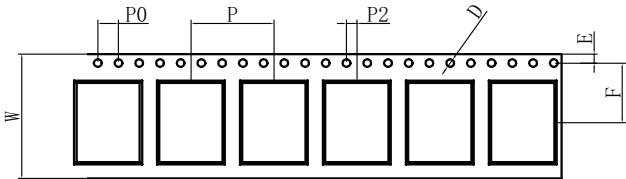


PACKAGING (8.5 & 9.5 HEIGHT MODELS)

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 offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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