



# Series 225A

## 7.3x4.3x3.8mm Compact Tactile Switch

- Surface mount terminal configurations
- Compatible with IR reflow and manual soldering



### Ordering Information

Series	Terminal Type	Actuating Direction	Actuator Height "L"	Actuator Force	Packaging	Travel	Ground Terminal																										
225A	J1	S	A	A	R	B	G																										
<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>J1</td><td>Surface mount J bend type 1</td></tr><tr><td>J2</td><td>Surface mount J bend type 2</td></tr></table>		Code	Spec.	J1	Surface mount J bend type 1	J2	Surface mount J bend type 2	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>A</td><td>2.4mm(Surface mount J bend type 1)</td></tr><tr><td>B</td><td>3.9mm(Surface mount J bend type 2)</td></tr><tr><td>C</td><td>4.25mm(Surface mount J bend type 2)</td></tr></table>		Code	Spec.	A	2.4mm(Surface mount J bend type 1)	B	3.9mm(Surface mount J bend type 2)	C	4.25mm(Surface mount J bend type 2)	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>A</td><td>180 gf</td></tr></table>	Code	Spec.	A	180 gf	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>R</td><td>Tape &amp; reel packing</td></tr></table>		Code	Spec.	R	Tape & reel packing	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>G</td><td>With ground terminal</td></tr></table>	Code	Spec.	G	With ground terminal
Code	Spec.																																
J1	Surface mount J bend type 1																																
J2	Surface mount J bend type 2																																
Code	Spec.																																
A	2.4mm(Surface mount J bend type 1)																																
B	3.9mm(Surface mount J bend type 2)																																
C	4.25mm(Surface mount J bend type 2)																																
Code	Spec.																																
A	180 gf																																
Code	Spec.																																
R	Tape & reel packing																																
Code	Spec.																																
G	With ground terminal																																
<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>S</td><td>Side</td></tr></table>		Code	Spec.	S	Side	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>S</td><td>0.15mm</td></tr><tr><td>Blank</td><td>0.25mm</td></tr></table>		Code	Spec.	S	0.15mm	Blank	0.25mm																				
Code	Spec.																																
S	Side																																
Code	Spec.																																
S	0.15mm																																
Blank	0.25mm																																

Notes: Contact CTS for other common features not listed.

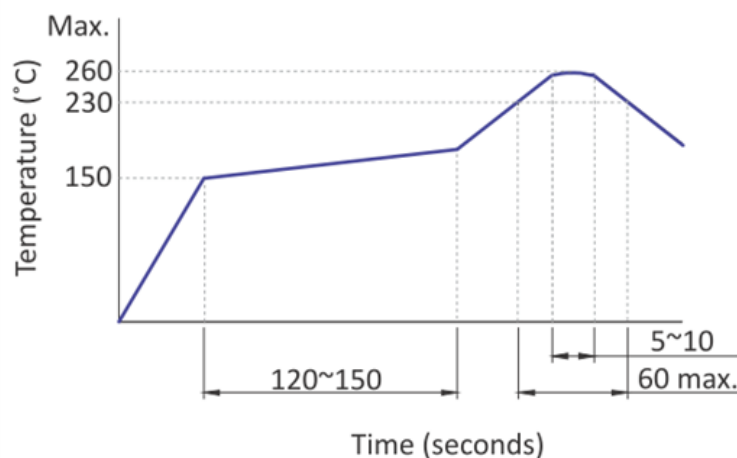
## Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			500	milliohms
Insulation Resistance	Between insulated terminals	100		Megohms
Dielectric Strength	1 minute between adjacent switches		250	VAC
Nonswitching Rating			50 or 12	mA or VDC

## Mechanical and Environmental

Soldering	Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU
Operating Force	180±50 gf
Actuation Life	Travel 0.15mm: 100,000 cycles Travel 0.25mm: 50,000 cycles
Actuator Strength	3 Kgf maximum
Travel	0.15±0.1 mm 0.25±0.1 mm
Packaging	Standard tape and reel packaging
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +85°C

## Soldering Profile



## Mechanical Specifications

Figure 1 –225AJ1...R(S)G Surface Mount J Bend Type1, With Ground Terminal

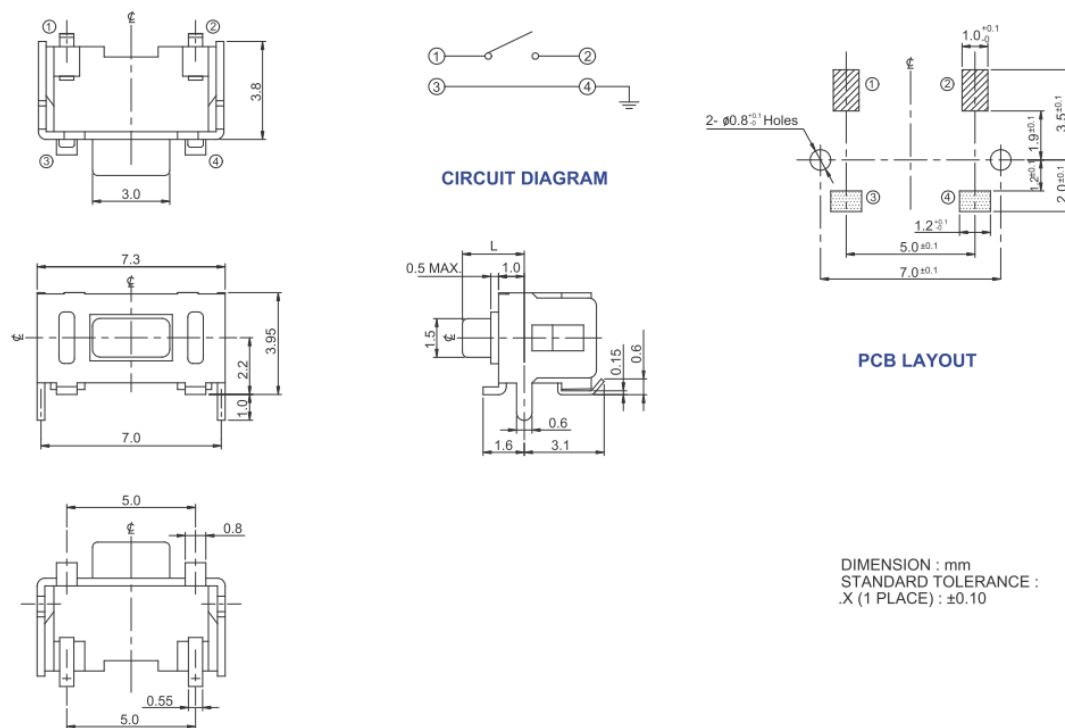
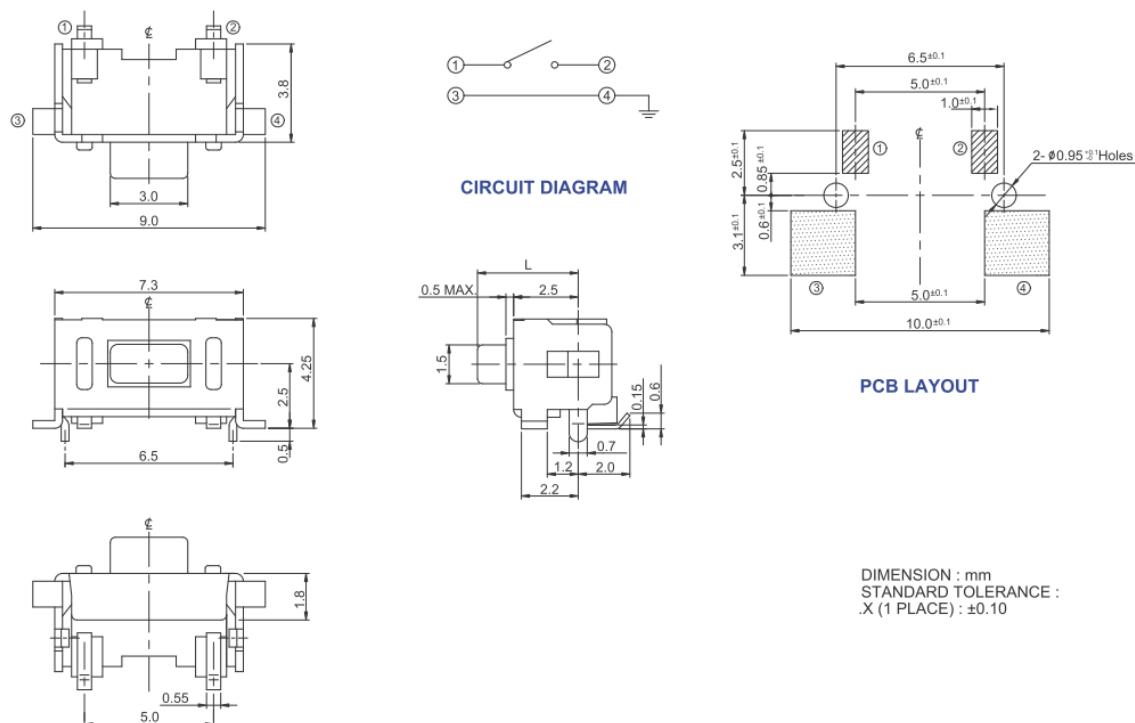


Figure 2 –225AJ2...R(S)G Surface Mount J Bend Type 2, With Ground Terminal

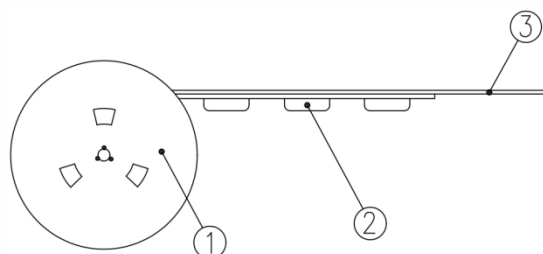


### Packing: Tape and Reel

#### Surface Mount J Bend Type 1

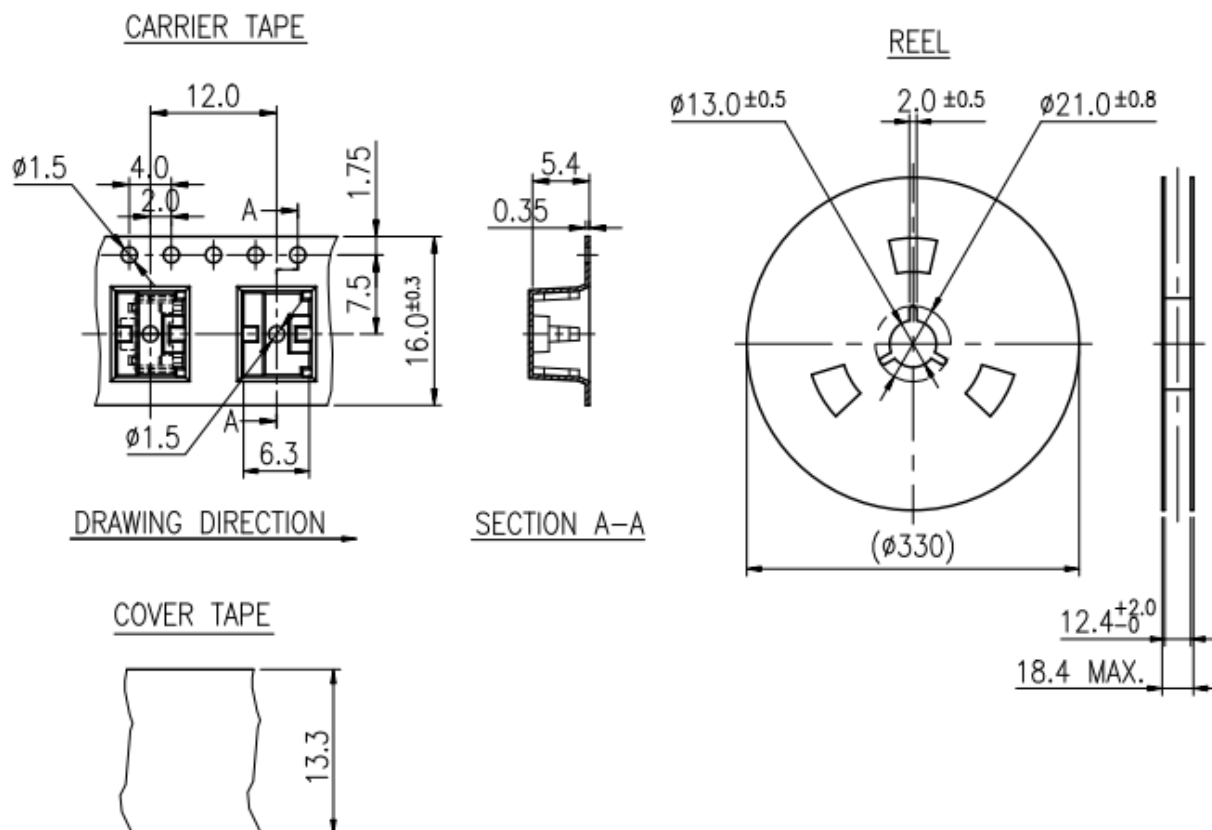
The packing specifications :

Structure and materials :



③	COVER TAPE	POLYESTER
②	CARRIER TAPE	POLYSTYRENE
①	REEL	POLYSTYRENE
NO.	PARTS NAME	MATERIALS

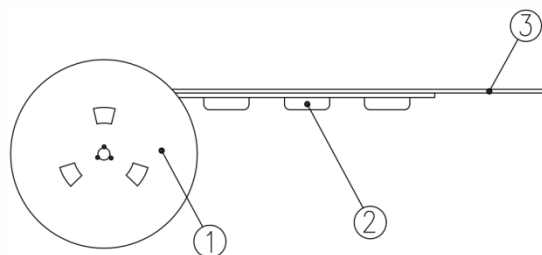
1. Packing quantity : 1,000 pcs/reel
2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
3. Shortage less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
4. Stripping strength of cover tape is between 10 gf to 70 gf and stripping angle should be within 165°~180°.
5. The product in the pocket of carrier tape should be placed in a specified correct position.
6. Tape and reel per EIA-481
7. Dimensions :



### Surface Mount J Bend Type 2

The packing specifications :

Structure and materials :



③	COVER TAPE	POLYESTER
②	CARRIER TAPE	POLYSTYRENE
①	REEL	POLYSTYRENE
NO.	PARTS NAME	MATERIALS

1. Packing quantity : 1,000 pcs/reel
2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
3. Shortage less than 10 pcs a reel is acceptable but more than 3 consecutive empty pockets are allowed.
4. Stripping strength of cover tape is between 10 gf to 70 gf and stripping angle should be within 165°~180°.
5. The product in the pocket of carrier tape should be placed in a specified correct position.
6. Tape and reel per EIA-481
7. Dimensions :

