



Series 223G

4.8x3.0mm Compact Tactile Switch

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



Ordering Information

| Series | Terminal Type | Actuating Direction | Actuator Height "L" | Actuator Force | Packaging | Mounting |
|--------|---------------|---------------------|---------------------|----------------|-----------------------|--------------|
| 223G | M | S | A | A | R | K |
| | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | Code | | | | | |
| | Spec. | | | | | |
| | M | | | | | |
| | Surface mount | | | | | |
| | | Code | | | | |
| | | Spec. | | | | |
| | | S | | | | |
| | | Side | | | | |
| | | | Code | | | |
| | | | Spec. | | | |
| | | | A | | | |
| | | | 1.7mm | | | |
| | | | | Code | | |
| | | | | Spec. | | |
| | | | | A | | |
| | | | | 160 gf | | |
| | | | | | Code | |
| | | | | | Spec. | |
| | | | | | R | |
| | | | | | Tape & reel packaging | |
| | | | | | | Code |
| | | | | | | Spec. |
| | | | | | | Blank |
| | | | | | | No bracket |
| | | | | | | K |
| | | | | | | With bracket |

Notes: Contact CTS for other common features not listed.

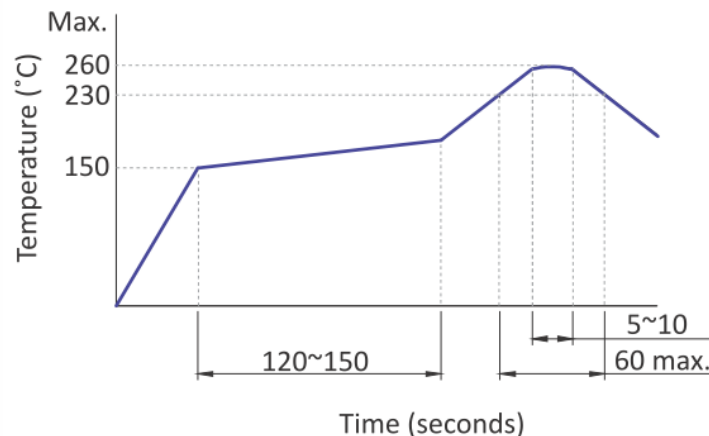
Electrical Specifications

| Parameter | Conditions & Remarks | Min | Max | Unit |
|-----------------------|------------------------------------|-----|----------------|-----------------|
| Contact Resistance | | | 100 | 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 | 160±50 gf |
| Actuation Life | 1,000,000 cycles |
| Actuator Strength | 5 Kgf maximum |
| Travel | 0.15±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 – 223G..., Surface Mount, Without Bracket

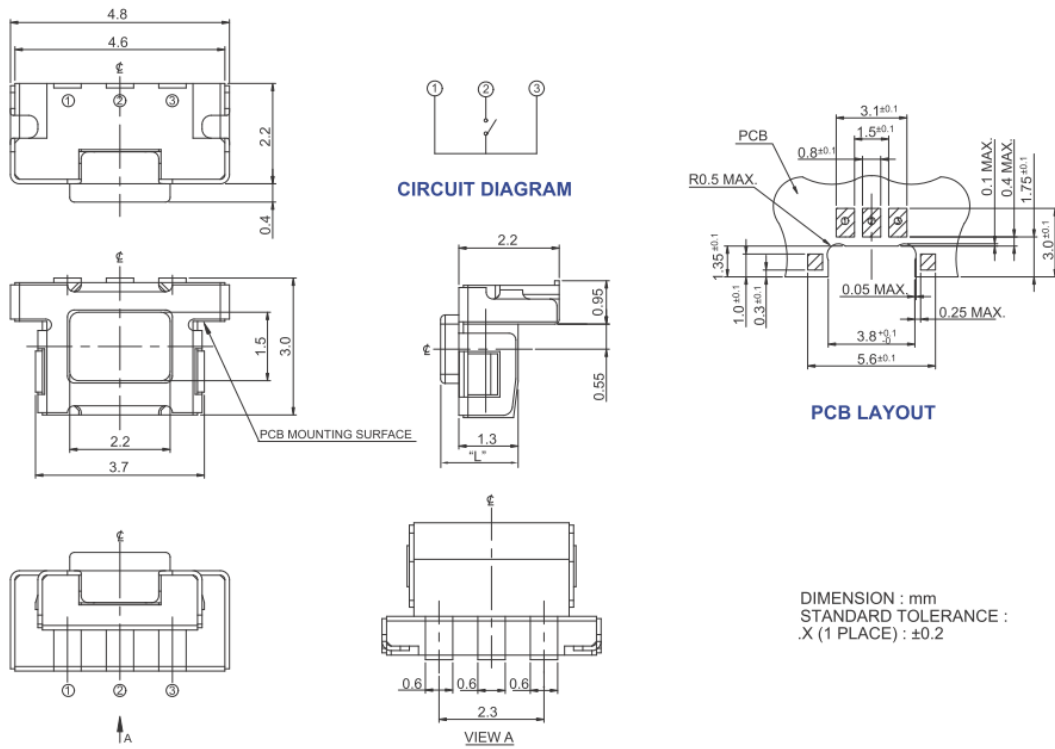
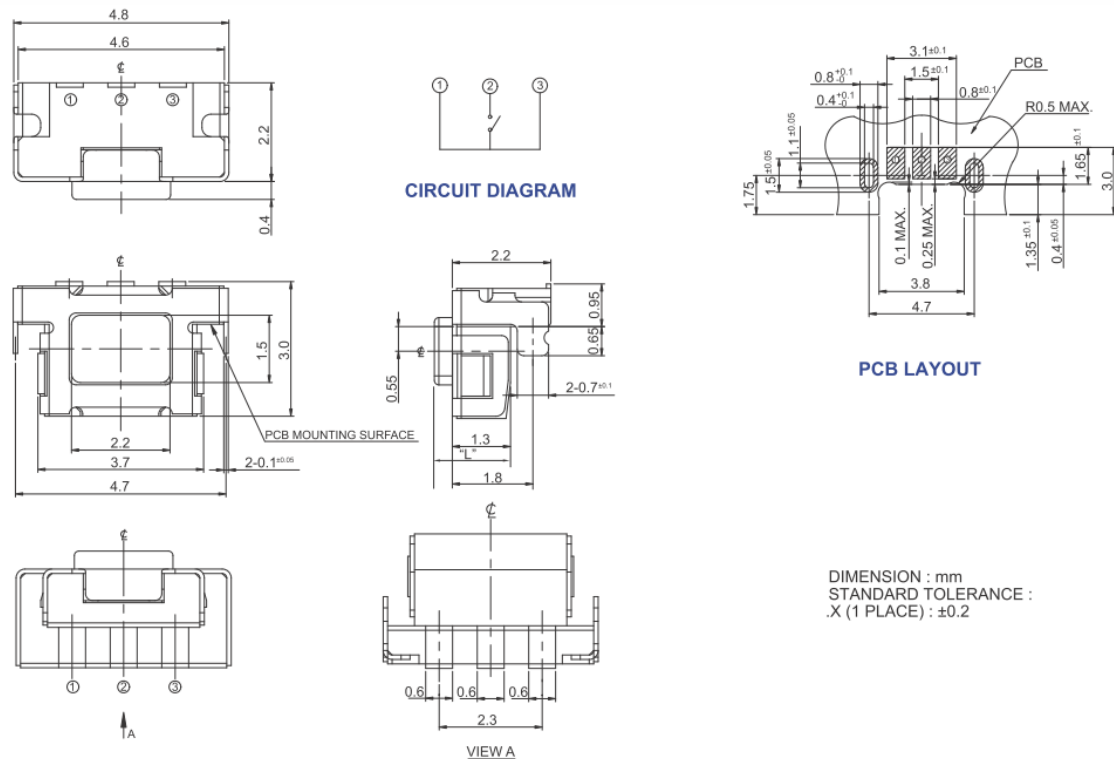


Figure 2 – 223G...K, Surface Mount, With Bracket

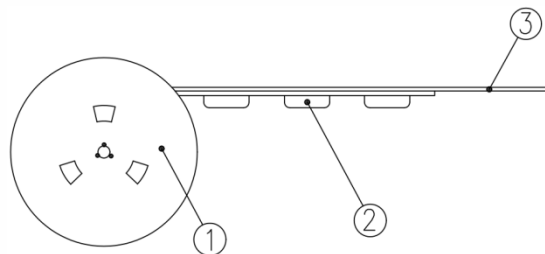


Packing: Tape and Reel

Surface Mount, With/Without Bracket

The packing specifications :

1. Structure and materials :



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

2. Packing quantity : 2,200 pcs/reel
3. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
4. Shortage less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
5. Stripping strength of cover tape is between 10 gf to 70 gf and stripping angle should be within 165°~180°.
6. The product in the pocket of carrier tape should be placed in a specified correct position.
7. Tape and reel per EIA-481
8. Dimensions :

