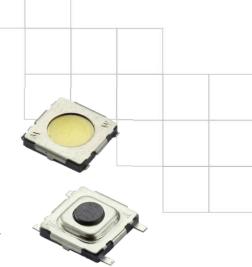


Series 222E 5.0 x 5.0mm Compact Tactile Switch

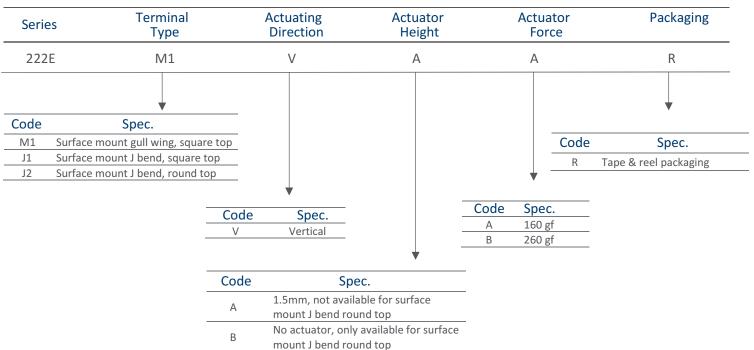
- Surface mount gull-wing and J-bend terminal configurations
- Compatible with IR reflow and manual soldering
- Variety of operating force & actuator height options
- With ground terminal

Description

Excellent tactile feedback provides user with simple and intuitive operation. Common product dimensions provide options to match your existing applications. The miniature product dimensions can make this an ideal choice for use in limited space applications.



Ordering Information



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 |
| Actuation Life | 160 gf 260 gf | | 1,000,000 200,000 | cycles |
| 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 | 120, 160, or 240 gf | |
| Actuator Strength | 3 Kgf maximum | |
| Travel | 0.15mm | |
| Packaging | Standard tape and reel packaging | |
| Storage Temperature Range | -40°C to +85°C | |



Mechanical Specifications

Figure 1 – 222EM1VA, Surface Mount Gull Wing, Square Top, With Ground Terminal

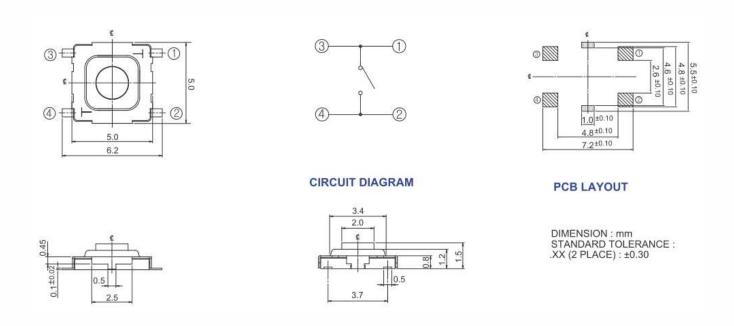


Figure 2 – 222EJ1VA, Surface Mount J Bend Terminal, Square Top, With Ground Terminal

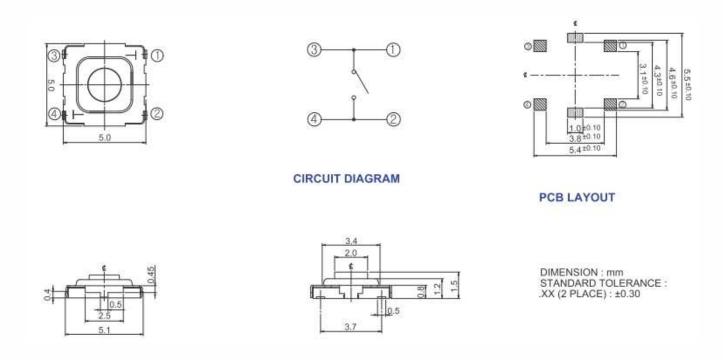
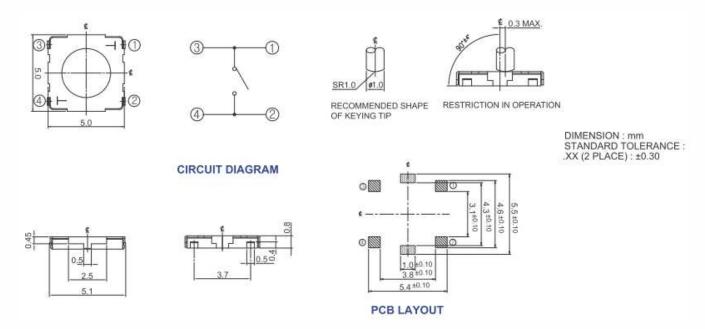






Figure 3 – Surface Mount J Bend Terminal, Round Top, No Actuator, With Ground Terminal

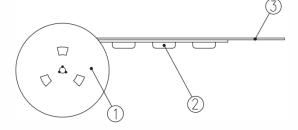


Packing: Tape and Reel

Surface Mount Gull Wing/J Bend, Square Top with 1.5mm Actuator Height

The packing specifications:

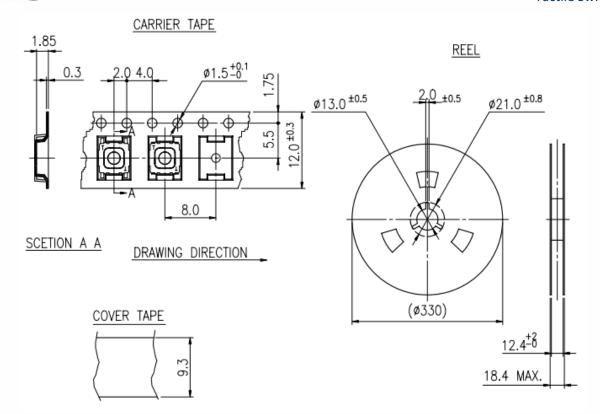
Structure and materials:



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

- 1. Packing quantity: 4,000 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:

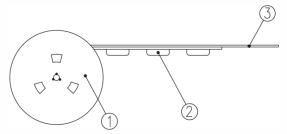




Packing: Tape and Reel

Surface Mount J Bend, Round Top with No Actuator

The packing specifications: Structure and materials:



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

- 1. Packing quantity: 5,000 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:



