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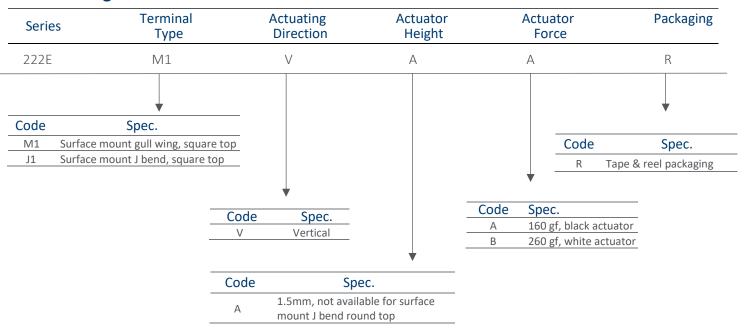
Series 222E

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



Ordering Information



Notes: Contact CTS for other common features not listed.





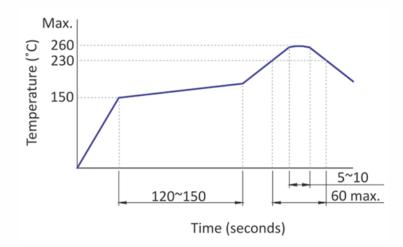
Electrical Specifications

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

Mechanical and Environmental

| 0.11.1 | Maximum reflow temperature, 260°C for 5 seconds | | |
|------------------------------|---|--|--|
| Soldering | Maximum manual temperature, 350°C for 3 seconds | | |
| RoHS | Lead-Free. Fully compliant to RoHS Directive 2011/65/EU | | |
| Operating Force | 160±50 gf 260±50 gf | | |
| Actuation Life | 160 gf: 1,000,000 cycles 260 gf: 200,000 cycles | | |
| Actuator Strength | 3 Kgf maximum | | |
| Travel | 0.25 ^{+0.05} _{-0.15} 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 – 222EM1VA, Surface Mount Gull Wing, Square Top, With Ground Terminal

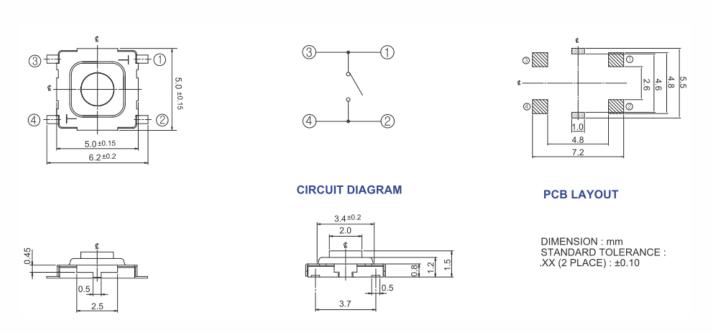
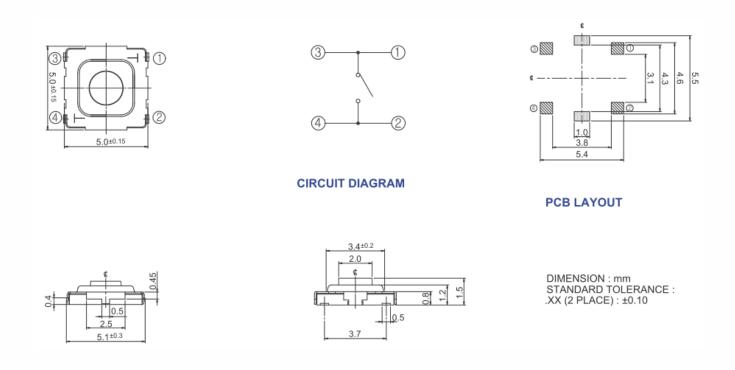


Figure 2 – 222EJ1VA, Surface Mount J Bend Terminal, Square Top, With Ground Terminal



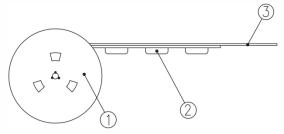


Packing: Tape and Reel

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

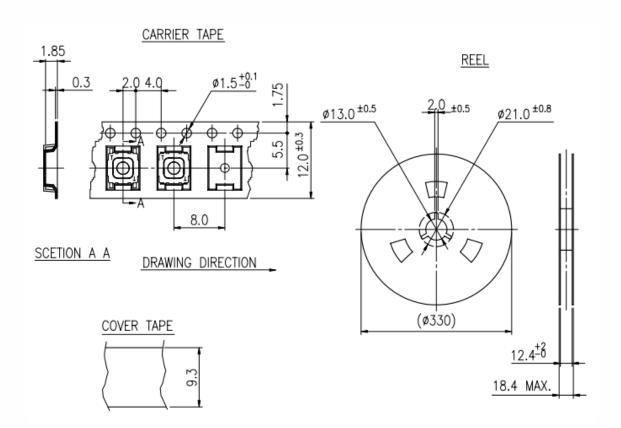
The packing specifications:

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 $165^{\circ}180^{\circ}$.
- 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:



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