



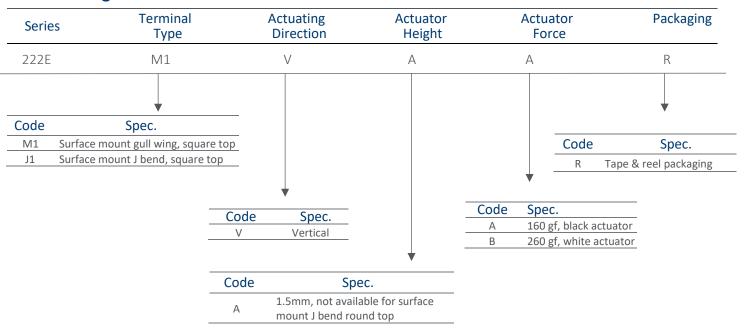
Series 222E

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.

2021-12-7 Rev. G WWW.ctscorp.com Page 1 of 4





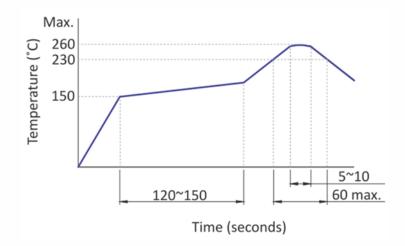
Electrical Specifications

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

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 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

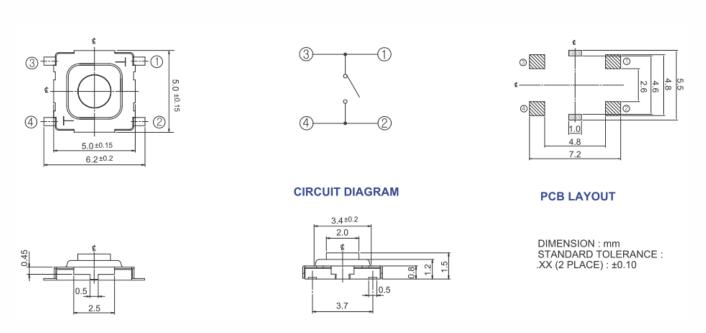
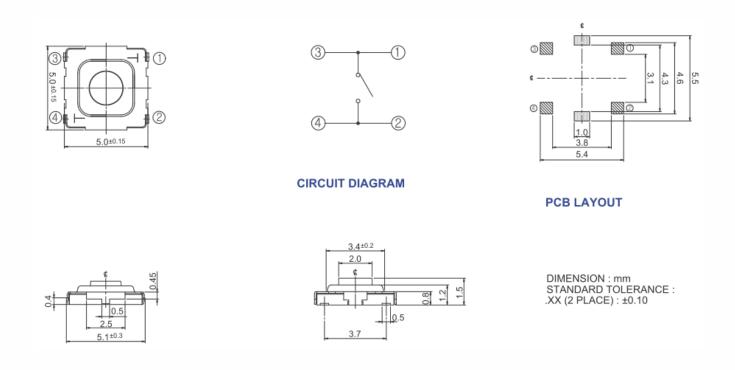


Figure 2 – 222EJ1VA, Surface Mount J Bend Terminal, Square Top, With Ground Terminal



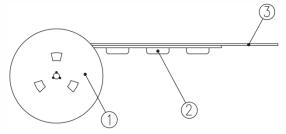


Packing: Tape and Reel

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.
- 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:

