

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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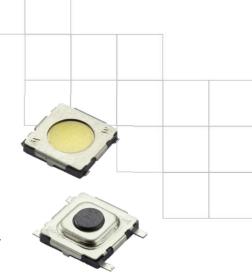


Series 222E 5.0 x 5.0mm Compact Tactile Switch

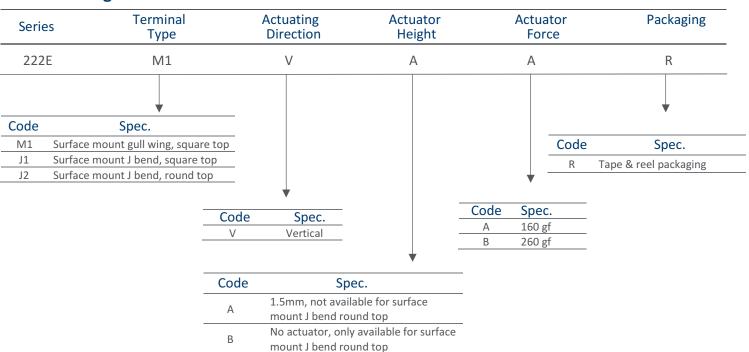
- Surface mount gull-wing and J-bend terminal configurations
- Compatible with IR reflow and manual soldering
- Variety of operating force & actuator height options
- With ground terminal

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

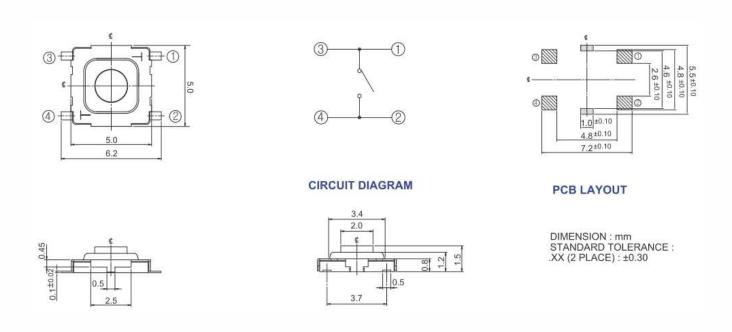


Figure 2 – 222EJ1VA, Surface Mount J Bend Terminal, Square Top, With Ground Terminal

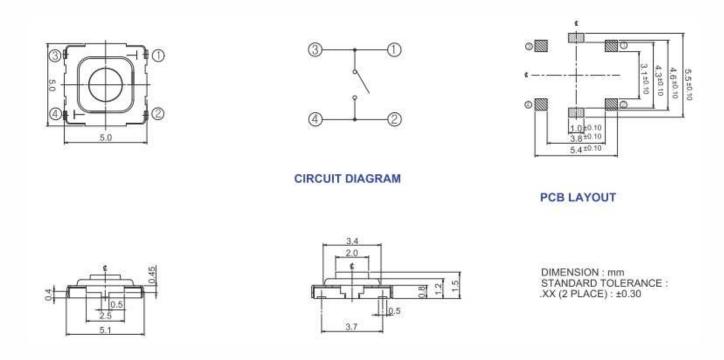
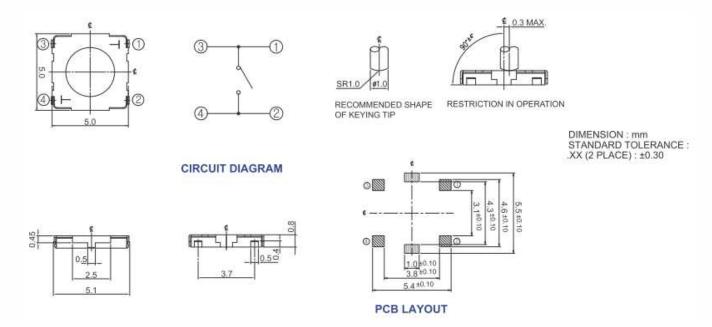






Figure 3 – Surface Mount J Bend Terminal, Round Top, No Actuator, With Ground Terminal

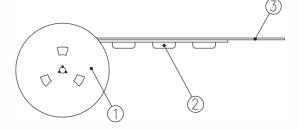


Packing: Tape and Reel

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

The packing specifications:

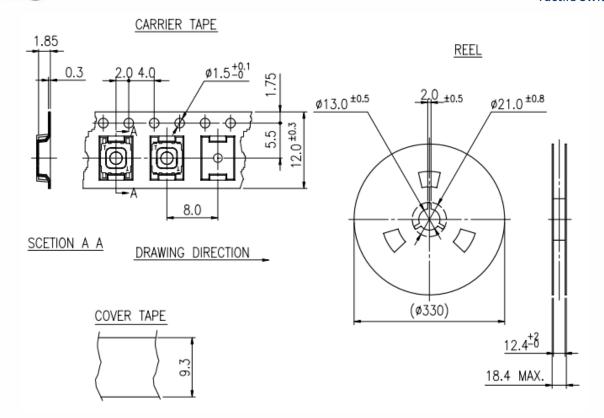
Structure and materials:



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:

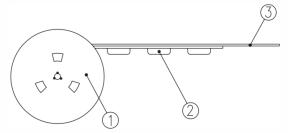




Packing: Tape and Reel

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:



