

Series 222D 6.2 x 6.2mm 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



Ordering Information

Notes: Contact CTS for other common features not listed.

www.ctscorp.com

Page 1 of 6

RoHS

Sense

©2018 CTS® Corporation. Information/product(s) subject to change. No warranty that product(s) will meet the stated specifications for customer specific applications or test equipment. Visit www.ctscorp.com for list of applicable patent(s), more information, or to request a quote.



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
			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, 260, or 360 gf	
Actuation Life	160 gf: 1,000,000 cycles 260 gf: 500,000 cycles 360 gf: 200,000 cycles	
Actuator Strength	3 Kgf maximum	
Travel	0.25 +0.2/-0.1mm	
Packaging	Standard tape and reel packaging	
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +85°C	



Mechanical Specifications

Figure 1 – 222DM, Surface Mount Gull Wing, Without Ground Terminal



Figure 2 – 222DJ, Surface Mount J-Bend Terminal, Without Ground Terminal





CIRCUIT DIAGRAM







PCB LAYOUT



2018-8-29 Rev. A

www.ctscorp.com

Page 3 of 6

©2018 CTS® Corporation. Information/product(s) subject to change. No warranty that product(s) will meet the stated specifications for customer specific applications or test equipment. Visit www.ctscorp.com for list of applicable patent(s), more information, or to request a quote.



Figure 3 – 222DJ...G, Surface Mount J Bend Terminal, With Ground Terminal



Packing: Tape and Reel

Surface Mount Gull Wing/J-Bend, Without Ground Terminal

The packing specifications:

Structure and materials:



No	PART NAME	MATERIAL
1	REEL	POLYSTYRENE
2	CARRIER TAPE	POLYSTYRENE
3	COVER TAPE	POLYESTER

- 1. Packing quantity: 2,000 pcs/reel
- 2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- 3. Shortage of 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:





Surface Mount J-Bend, With Ground Terminal



Structure and materials:



- 1. Packing quantity: 2,200 pcs/reel
- 2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- 3. Shortage of 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:



Series 222D Tactile Switch

