

Series 224A Data Sheet Tactile Switch

12 x 12mm Compact Tactile Switch

Features

Optimized Mechanical Features

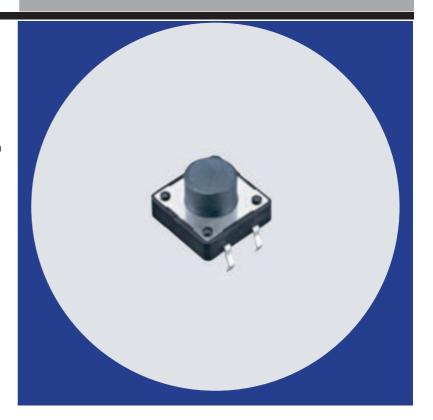
- Surface mount gull-wing terminal and standard through hole configurations
- · Compatible with IR reflow, wave and manual soldering
- · Compatible with automatically dip-soldering
- · Variety of operating force & actuator height options

Optimized Contact System

· Excellent tactile feedback

Materials

- · Silver coated terminals for better solderability
- High temperature materials (UL94V-0)
- RoHS compliant



Electrical and Mechanical Specifications

Switch Contact Resistance

100 milliohms maximum

Insulation Resistance

100 Megohms minimum between terminals

Maximum Rating

50mA, 12 VDC

Dielectric Strength

250 VAC for 1 minute between adjacent terminals

Operating Force

160 or 260gf

Travel

0.3mm

Operating Temperature

- 40°C to +85°C

Storage Temperature

- 40°C to +85°C

Actuator Strength

3 Kgf maximum

Actuation Life

160 gf: 500,000 cycles 260 gf: 300,000 cycles

Allowable Solder Time

IR Reflow: Up to 5 seconds at 260°C Wave soldering: Up to 5 seconds at 260°C Manual soldering: Up to 3 seconds at 350°C

Packaging

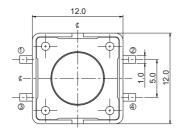
Standard: Bag packaging

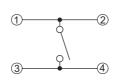
Optional: Tape and reel packaging with 330mm diameter reel,

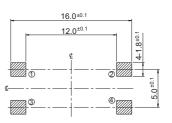
24mm wide plastic tape - for surface mount gull-wing

terminal

CTS SERIES 224AM... - Surface Mount Gull Wing, Without Boss

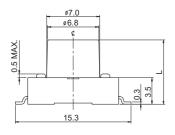


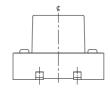




CIRCUIT DIAGRAM

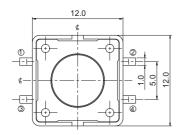
PCB LAYOUT

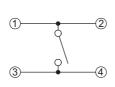


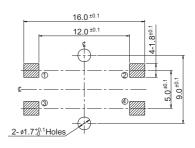


DIMENSION: mm STANDARD TOLERANCE: .X (1 PLACE): ±0.30

CTS SERIES 224AM...B - Surface Mount Gull Wing, With Boss

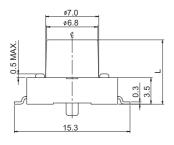


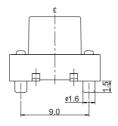




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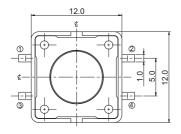
PCB LAYOUT

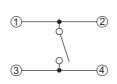


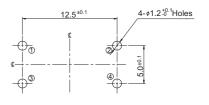


DIMENSION: mm STANDARD TOLERANCE: .X (1 PLACE): ±0.30

CTS SERIES 224AD... - Standard Through Hole, Without Boss

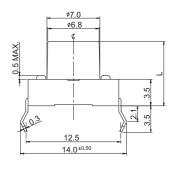


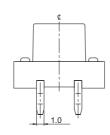




CIRCUIT DIAGRAM

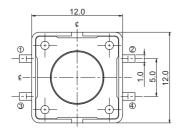
PCB LAYOUT

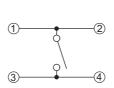


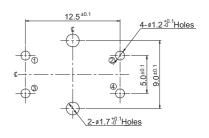


DIMENSION: mm STANDARD TOLERANCE: .X (1 PLACE): ±0.30

CTS SERIES 224AD...B - Standard Through Hole, With Boss

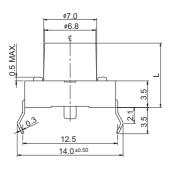


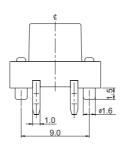




CIRCUIT DIAGRAM

PCB LAYOUT





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Ordering Information

