

Series 220 Data Sheet Rotary DIP Switch

7x7mm Miniature Rotary DIP Switch

Features

Optimized Mechanical Features

- · Robust metal bracket design
- Standard through hole and surface mount gull-wing terminal configurations
- Binary Coded Decimal, Hexadecimal code and Single pole output
- · Clockwise or counterclockwise rotation

Optimized Contact System

- · Robust wiping contact
- · Precise detents

Materials

- · Gold plated beryllium copper contacts
- · Tin coated terminals for better solderability
- High temperature materials (UL94V-0)
- · RoHS compliant



Electrical and Mechanical Specifications

Switch Options

4,10,16 positions

Output

Binary Coded Decimal Hexadecimal Code Single Pole

Switch Contact Resistance

100 milliohms maximum

Insulation Resistance

1000 Mohms minimum between insulated terminals

Dielectric Strength

250 VAC for 1 minute between adjacent terminals

Maximum Rating

100 mA 50 VDC

Minimum Load

1µA 20m VDC

Operating Temperature

- 40°C to +85°C

Rotational Torque

40~200 gf-cm

Actuation Life

10,000 steps

Allowable Solder Time

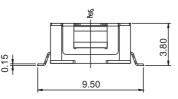
Reflow soldering up to 5 seconds at 260°C max. Wave soldering up to 10 seconds at 260°C max. Manual soldering up to 4 seconds at 350°C max.

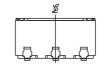
Packaging

Standard : Anti-static tube packaging Optional : Tape and reel packaging

CTS SERIES 220AM_10,16R - Surface Mount Gull Wing, 10 and 16 Position

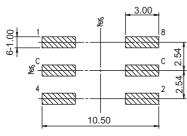
0.70W x 2.75L x 1.05D 7.20 £ **PCB LAYOUT**

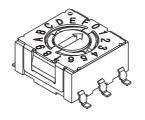




CODE 2 4 0 1 • 3 • • 4 6

CODE TABLE



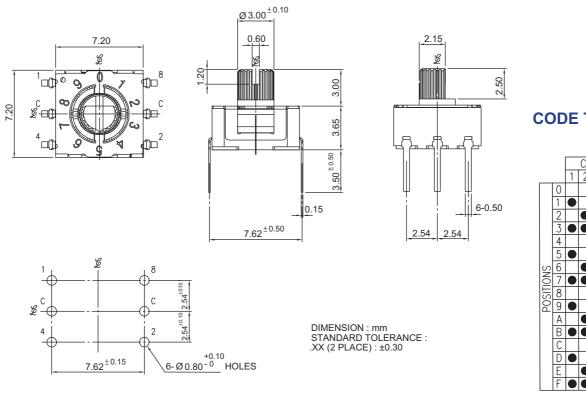


DIMENSION : mm STANDARD TOLERANCE : .XX (2 PLACE) : ±0.30

Dot indicates terminal to common connection. All switches are continuous rotation.

10 Position - Numbered 0 through 9 16 Position - Numbered 0 through F

CTS SERIES 220AD_10,16 - Standard Through Hole, 10 and 16 Position



CODE TABLE

		CODE 1 2 4 8			
		1	2	4	8
POSITIONS	0				
	1	•			
	2				
	3				
	4				
	5	•			
	2 3 4 5 6 7 8 9		•		
	7	•	•	•	
	8				•
	9	•			•
	Α		•		•
	В	•	•		•
	С				
	D	•			
	B C D E F		•	•	•
	F	•	•	•	•

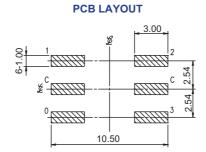
Dot indicates terminal to common connection. All switches are continuous rotation.

10 Position - Numbered 0 through 9

16 Position - Numbered 0 through F

CTS SERIES 220AM_04R - Surface Mount Gull Wing, 4 Position

0.70Wx2.75Lx1.05D 7.20

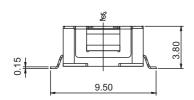


CODE TABLE



Dot indicates terminal to common connection. All switches are continuous rotation.

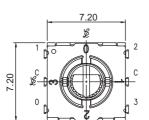
4 Position - Single pole



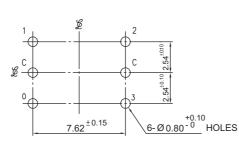


DIMENSION: mm STANDARD TOLERANCE: .XX (2 PLACE): ±0.30

CTS SERIES 220AD_04 - Standard Through Hole, 4 Position





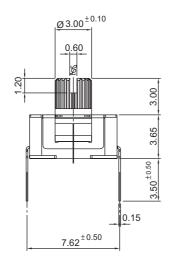


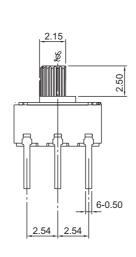
CODE TABLE



Dot indicates terminal to common connection. All switches are continuous rotation.

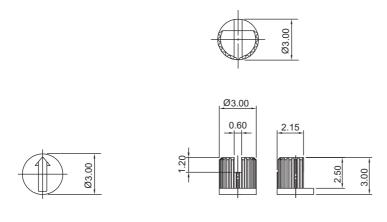
4 Position - Single pole

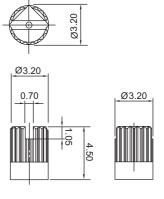




DIMENSION : mm STANDARD TOLERANCE : .XX (2 PLACE) : ±0.30

Actuator Options





A: FLUSH ARROW ROTOR

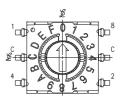
B: KNURLED, SLOTTED, FLATTED SHAFT

C: KNURLED, SLOTTED SHAFT

DIMENSION : mm STANDARD TOLERANCE : .XX (2 PLACE) : ±0.30

Position Options





04: 4 POSITIONS 10: 10 POSITIONS

16: 16 POSITIONS

Ordering Information

