Series 221

## 10x10mm Compact Rotary DIP Switch

- Standard through hole and surface mount gull-wing terminal configurations
- Binary coded decimal, Hexadecimal code output
- Clockwise or counterclockwise rotation
- Suitable for board spray washing



## Ordering Information



Notes: Contact CTS for other common features not listed.

## Electrical Specifications

| Parameter | Conditions \& Remarks | Min | Max | Unit |
| :--- | :--- | :---: | :---: | :---: |
| Output | Binary coded decimal |  | 10 | position |
|  | Hexadecimal |  | 16 | milliohms |
| Contact Resistance |  | 1000 | megohms |  |
| Insulation Resistance | Between insulated terminals |  | 1 | minute |
| Dielectric Strength | 350 Vac between adjacent |  |  |  |
| switches |  |  | 100 | steps |
| Actuation Life |  |  | or | mA |
| Nonswitching Rating |  | $1 \mu \mathrm{~A}$ | or | Vdc |
|  | 20 m |  | VDC |  |

## Mechanical and Environmental

| Soldering | Maximum reflow temperature, $260^{\circ} \mathrm{C}$ for 10 seconds <br> Maximum wave temperature, $260^{\circ} \mathrm{C}$ for 10 seconds <br> Maximum manual temperature, $350^{\circ} \mathrm{C}$ for 5 seconds |
| :--- | :--- |
| RoHS | Lead-Free. Fully compliant to RoHS |
| Rotational Torque: | $144^{\sim} 432$ gf-cm |
| Marking: | Special top marking available-consult CTS |
| Packaging : | Standard anti-static tube packaging for through hole terminal <br> Standard tape and reel packaging for gull wing terminal |
| Operating Temperature <br> Range: | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Storage Temperature <br> Range: | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |

## Soldering Profile



## Mechanical Specifications

Figure 1 - Surface Mount Gull Wing


## CODE TABLE



Uot indicates terminal to common connection. All switches are continuous rotation.
DIMENSION : mm
STANDARD TOLERANCE
XX (2 PLACE) : $\pm 0.30$

16 Position - Numbered 0 throu

Figure 2 - Standard Through Hole


## CODE TABLE



Dot indicates terminal to common connection. All switches are continuous rotation.
10 Position - Numbered 0 through 9 16 Position - Numbered 0 through F

DIMENSION : mm
STANDARD TOLERANCE XX (2 PLACE) : $\pm 0.30$

## Actuator Options

A: FLUSH ARROW \& SLOTTED ROTOR


B: ARROW \& SLOTTED SHAFT


C: ARROW \& SLOTTED SHAFT

## Packing: Tape and Reel

The packing specifications:

1. Structure and materials:

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 130 gf and stripping angle should be within $165^{\circ} \sim 180^{\circ}$.
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:


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