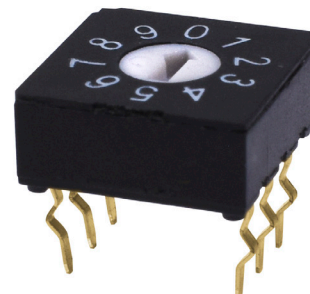


**SERIES:** RDS-1045 | **DESCRIPTION:** ROTARY DIP SWITCH**FEATURES**

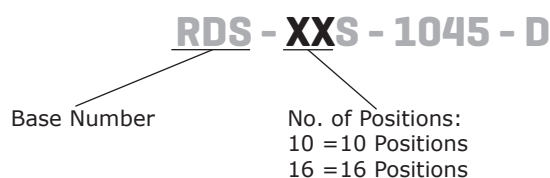
- 10 and 16 positions
- flat actuator
- gold plated terminals
- through hole mounting

**SPECIFICATIONS**

| parameter             | conditions/description | min    | typ | max | units   |
|-----------------------|------------------------|--------|-----|-----|---------|
| rated voltage         | switching              |        |     | 24  | Vdc     |
|                       | non-switching          |        |     | 50  | Vdc     |
| rated current         | switching              |        |     | 25  | mA      |
|                       | non-switching          |        |     | 100 | mA      |
| withstanding voltage  | for 1 minute           |        | 250 |     | Vac     |
| contact resistance    | initial                |        |     | 50  | mΩ      |
|                       | after life test        |        |     | 100 | mΩ      |
| insulation resistance | at 250 Vdc             | 100    |     |     | MΩ      |
| operating torque      |                        |        |     | 500 | gf*cm   |
| dial travel           | continuous rotation    |        | 360 |     | degrees |
| operating temperature |                        | -40    |     | 85  | °C      |
| storage temperature   |                        | -40    |     | 85  | °C      |
| life                  |                        | 10,000 |     |     | steps   |
| flammability rating   | UL94V-0                |        |     |     |         |
| RoHS                  | yes                    |        |     |     |         |

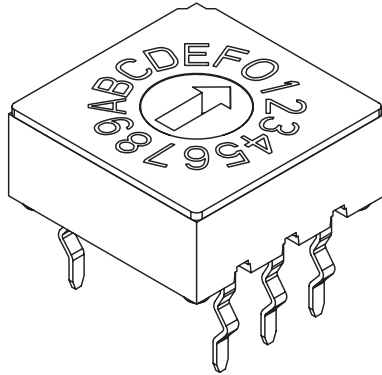
**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 3 seconds  | 315 | 320 | 325 | °C    |
| wave soldering | for maximum 5 seconds  | 240 | 250 | 260 | °C    |

**PART NUMBER KEY**

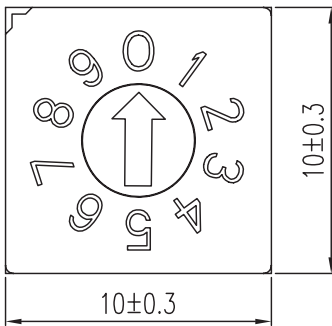
## MECHANICAL DRAWING

units: mm  
 tolerance:  
 $X \leq 0.5$ :  $\pm 0.25$  mm  
 $0.5 < X \leq 3.0$ :  $\pm 0.15$  mm  
 $3.0 < X \leq 6.0$ :  $\pm 0.20$  mm  
 $6.0 < X \leq 30.0$ :  $\pm 0.25$  mm  
 $30.0 < X \leq 120.0$ :  $\pm 0.30$  mm  
 $120.0 < X \leq 400.0$ :  $\pm 0.50$  mm  
 $X > 400.0$ :  $\pm 0.80$  mm  
 unless otherwise noted

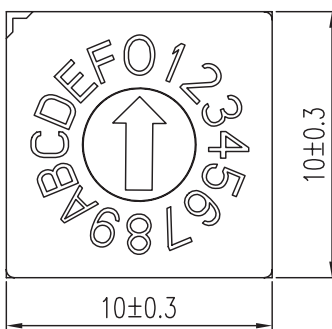


| ITEM | DESCRIPTION | MATERIAL       | PLATING/COLOR |
|------|-------------|----------------|---------------|
| 1    | dial        | PA9T (UL94V-0) | gray          |
| 2    | housing     | PA9T (UL94V-0) | black         |
| 3    | base        | PA9T (UL94V-0) | black         |
| 4    | terminals   | copper alloy   | gold          |

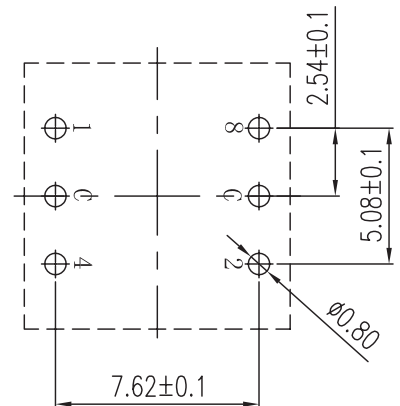
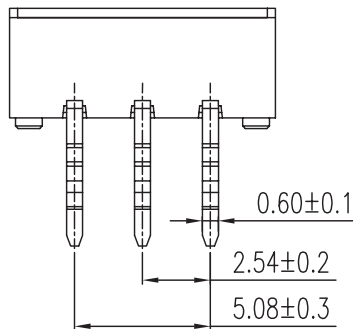
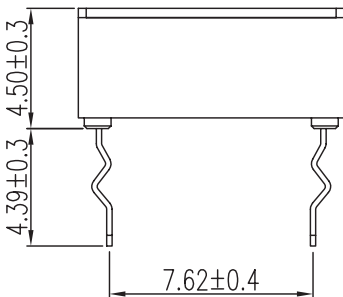
### 10 POSITION



### 16 POSITION



|         |   | ON ○  |      |   |   |   |   |
|---------|---|-------|------|---|---|---|---|
|         |   | OFF ● | CODE |   |   |   |   |
|         |   | TYPE  | POS  | 1 | 2 | 4 | 8 |
| 10 STEP | 0 | ●     | ●    | ● | ● | ● |   |
|         | 1 | ○     | ●    | ● | ● | ● |   |
|         | 2 | ●     | ○    | ● | ● | ● |   |
|         | 3 | ○     | ○    | ● | ● | ● |   |
|         | 4 | ●     | ●    | ○ | ● | ● |   |
|         | 5 | ○     | ●    | ○ | ● | ● |   |
|         | 6 | ●     | ○    | ○ | ● | ● |   |
|         | 7 | ○     | ○    | ○ | ● | ● |   |
|         | 8 | ●     | ●    | ● | ● | ○ |   |
|         | 9 | ○     | ●    | ● | ● | ○ |   |
| 16 STEP | A | ●     | ○    | ● | ○ | ○ |   |
|         | B | ○     | ○    | ● | ○ | ○ |   |
|         | C | ●     | ●    | ○ | ○ | ○ |   |
|         | D | ○     | ●    | ○ | ○ | ○ |   |
|         | E | ●     | ○    | ○ | ○ | ○ |   |
|         | F | ○     | ○    | ○ | ○ | ○ |   |



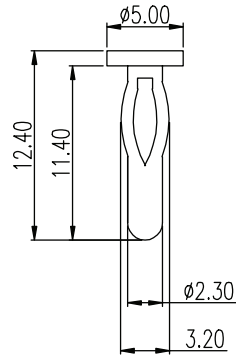
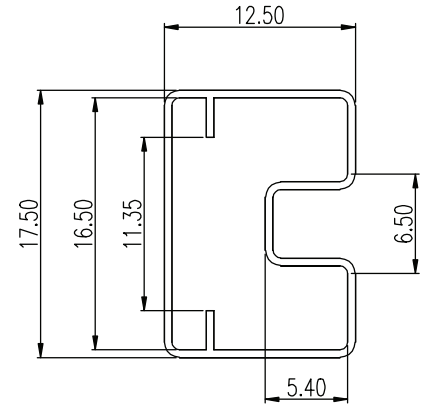
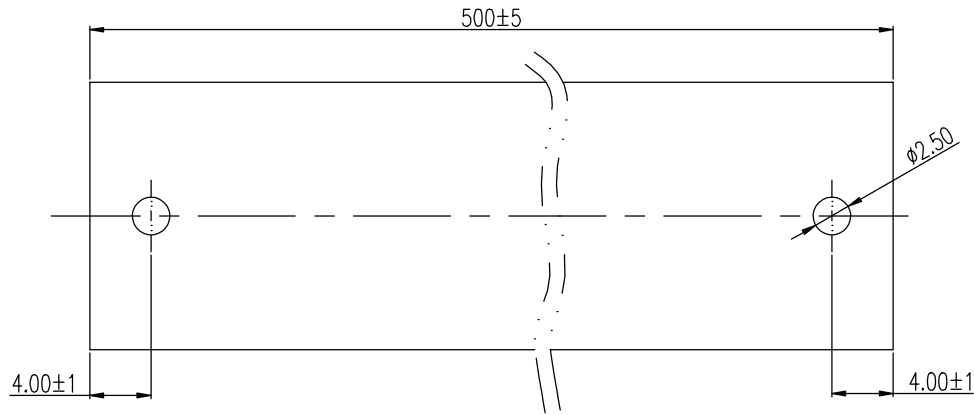
Recommended PCB Layout  
Top View

## PACKAGING

units: mm

Tube Size: 17.50 x 12.50 x 500 mm

Tube QTY: 47 pcs



## REVISION HISTORY

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| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 05/21/2020 |

The revision history provided is for informational purposes only and is believed to be accurate.

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# CUI DEVICES

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