

**date** 08/05/2022

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# SERIES: RDS-1045 | DESCRIPTION: ROTARY DIP SWITCH

#### **FEATURES**

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





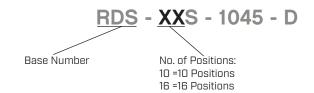
### **SPECIFICATIONS**

| parameter             | conditions/description     | min    | typ | max       | units      |
|-----------------------|----------------------------|--------|-----|-----------|------------|
| rated voltage         | switching<br>non-switching |        |     | 24<br>50  | Vdc<br>Vdc |
| rated current         | switching<br>non-switching |        |     | 25<br>100 | mA<br>mA   |
| withstanding voltage  | for 1 minute               |        | 250 |           | Vac        |
| contact resistance    | initial<br>after life test |        |     | 50<br>100 | $m\Omega$  |
| insulation resistance | at 250 Vdc                 | 100    |     |           | МΩ         |
| 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-O                    |        |     |           |            |
| 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**



CODE

4

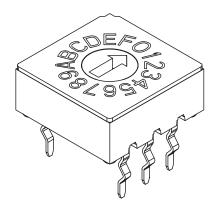
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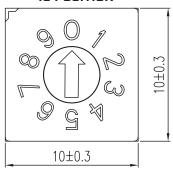
## **MECHANICAL DRAWING**

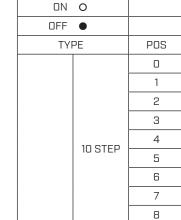
units: mm tolerance: X≤0.5: ±0.25 mm 0.5<X≤3.0: ±0.15 mm 3.0<X≤6.0: ±0.20 mm 6.0<X≤30.0: ±0.25 mm 30.0<X≤120.0: ±0.30 mm 120.0<X≤400.0: ±0.50 mm X>400.0: ±0.80 mm unless otherwise noted



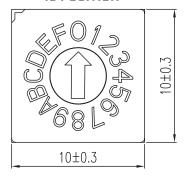
| ITEM | DESCRIPTION | MATERIAL       | PLATING/COLOR |
|------|-------------|----------------|---------------|
| 1    | dial        | PA9T (UL94V-0) | gray          |
| 2    | housing     | PA9T (UL94V-0) | black         |
| 3    | base        | PA9T (UL94V-0) | black         |
| 4    | terminals  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

#### 10 POSITION





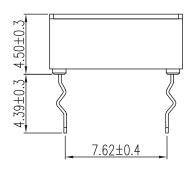
#### **16 POSITION**

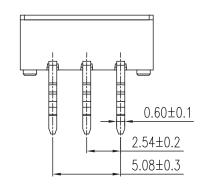


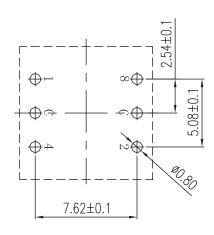
|          | 2 | • | 0 | • | • |
|----------|---|---|---|---|---|
|          | 3 | 0 | 0 | • | • |
| 10 STEP  | 4 | • | • | 0 | • |
| 103169   | 5 | 0 | • | 0 | • |
|          | 6 | • | 0 | 0 | • |
|          | 7 | 0 | 0 | 0 | • |
|          | 8 | • | • | • | 0 |
|          | 9 | 0 | • | • | 0 |
|          | А | • | 0 | • | 0 |
|          | В | 0 | 0 | • | 0 |
| 16 STEP  | С | • | • | 0 | 0 |
| 10 31 EP | D | 0 | • | 0 | 0 |
|          | Е | • | 0 | 0 | 0 |
|          | F | 0 | 0 | 0 | 0 |

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0







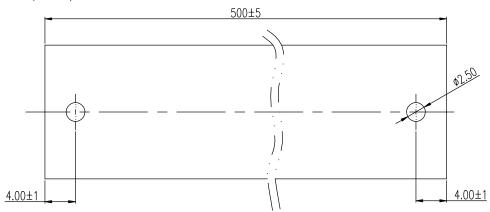
Recommended PCB Layout Top View

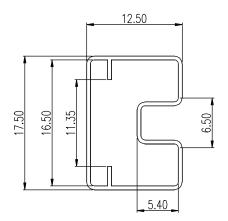
# **PACKAGING**

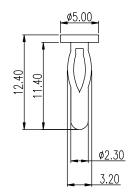
units: mm

Tube Size: 17.50 x 12.50 x 500 mm

Tube QTY: 47 pcs







### **REVISION HISTORY**

| rev. | description                  | date       |  |
|------|------------------------------|------------|--|
| 1.0  | initial release              | 05/21/2020 |  |
| 1.01 | logo, datasheet style update | 08/05/2022 |  |

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



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