Additional Resources: Product Page



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

#### **FEATURES**

- 10 and 16 positions
- flat actuator
- $\boldsymbol{\cdot}$  gold plated terminals
- $\cdot$  through hole mounting



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# ROHS

# **SPECIFICATIONS**

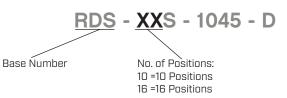
| parameter             | conditions/description     | min    | typ | max       | units      |
|-----------------------|----------------------------|--------|-----|-----------|------------|
| rated voltage         | switching<br>non-switching |        |     | 24<br>50  | Vdc<br>Vdc |
| rated current         | 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 | mΩ<br>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    |

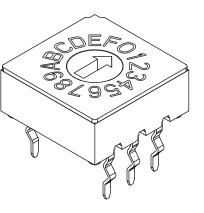
# PART NUMBER KEY

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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: ±0.30 mm x>400.0: ±0.80 mm unless otherwise noted



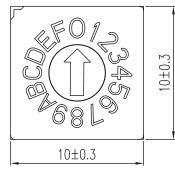
| ITEM | DESCRIPTION | MATERIAL       | PLATING/COLOR |
|------|-------------|----------------|---------------|
| 1    | dial        | PA9T (UL94V-0) | gray          |
| 2    | housing     | PA9T (UL94V-0) | black         |
| З    | base        | PA9T (UL94V-0) | black         |
| 4    | terminals  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

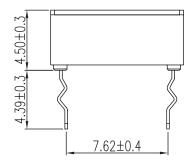
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**10 POSITION** 

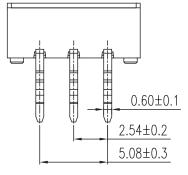
#### **16 POSITION**

10±0.3

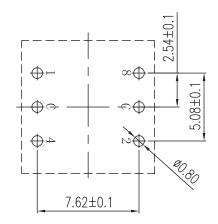




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| ON  | 0       |     |      |   |   |   |
|-----|---------|-----|------|---|---|---|
| OFF | •       |     | CODE |   |   |   |
| TYI | ⊃E      | POS | 1    | 2 | 4 | 8 |
|     |         | D   | •    | ٠ | ٠ | • |
|     |         | 1   | 0    | ٠ | ٠ | • |
|     |         | 2   | •    | 0 | ٠ | • |
|     | 10 STEP | З   | 0    | 0 | • | • |
|     |         | 4   | •    | • | 0 | • |
|     | IUSIEP  | 5   | 0    | ٠ | 0 | • |
|     |         | 6   | •    | 0 | 0 | • |
|     |         | 7   | 0    | 0 | 0 | • |
|     |         | 8   | •    | • | • | 0 |
|     |         | 9   | 0    | • | • | 0 |
|     | 16 STEP | А   | •    | 0 | ٠ | 0 |
|     |         | В   | 0    | 0 | ٠ | 0 |
|     |         | С   | •    | • | 0 | 0 |
|     |         | D   | 0    | • | 0 | 0 |
|     |         | E   | •    | 0 | 0 | 0 |
|     |         | F   | 0    | 0 | 0 | 0 |



Recommended PCB Layout Top View

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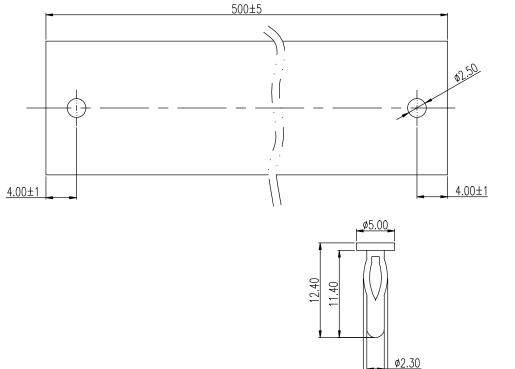
#### sameskydevices.com

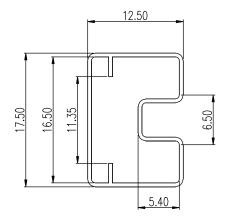
# PACKAGING

#### units: mm

Tube Size: 17.50 x 12.50 x 500 mm Tube QTY: 47 pcs

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#### **REVISION HISTORY**

| rev. | description                       | date       |  |  |
|------|-----------------------------------|------------|--|--|
| 1.0  | initial release                   | 05/21/2020 |  |  |
| 1.01 | logo, datasheet style update      | 08/05/2022 |  |  |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |  |  |

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

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

# same sky

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