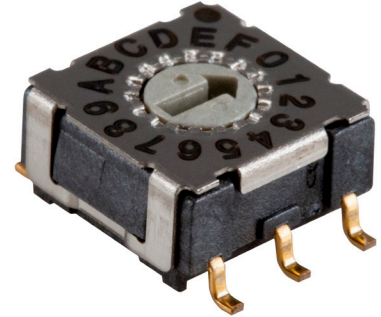


**SERIES:** RDS-74385-SMT | **DESCRIPTION:** ROTARY DIP SWITCH

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**FEATURES**

- 10 and 16 positions
- flat actuator
- surface mount
- tube or tape and reel packaging

**SPECIFICATIONS**

| parameter             | conditions/description                         | min | typ    | max | units   |
|-----------------------|------------------------------------------------|-----|--------|-----|---------|
| rated voltage         | switching                                      |     |        | 42  | Vdc     |
|                       | non-switching                                  |     |        | 42  | Vdc     |
| rated current         | switching                                      |     |        | 100 | mA      |
|                       | non-switching                                  |     |        | 400 | mA      |
| withstanding voltage  | for 1 minute                                   |     | 250    |     | Vac     |
| contact resistance    |                                                |     |        | 80  | mΩ      |
| insulation resistance | at 250 Vdc                                     | 100 |        |     | MΩ      |
| operating torque      |                                                | 90  | 120    | 150 | gf*cm   |
| actuator travel       | continuous rotation                            |     | 360    |     | degrees |
| operating temperature |                                                | -60 |        | 125 | °C      |
| storage temperature   |                                                | -60 |        | 125 | °C      |
| life                  | at rated voltage, current, 15~20 cycles/minute |     | 25,000 |     | steps   |
| flammability rating   | UL94V-0                                        |     |        |     |         |
| RoHS                  | yes                                            |     |        |     |         |
| IP level              | IP67 (IEC 60529:2001)                          |     |        |     |         |

**PART NUMBER KEY**

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**RDS - XXS - 74385 - SMT - XX**

Base Number

No. of Positions:  
10 =10 Positions  
16 =16 Positions

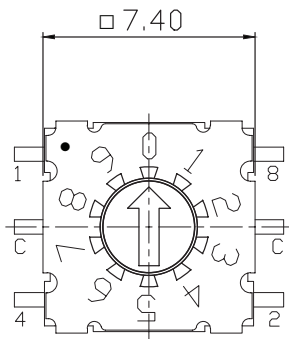
Packaging:  
"blank" = Tube  
TR = Tape and Reel

## MECHANICAL DRAWING

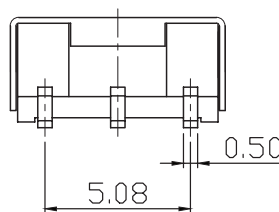
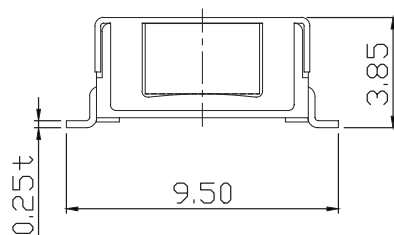
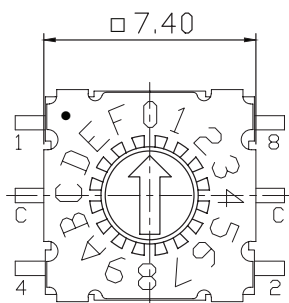
units: mm  
tolerance:  $\pm 0.3$  mm  
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                           |
|------|-------------|-----------------|-----------------------------------------|
| 1    | actuator    | LCP [UL94V-0]   | red (10 position)<br>gray (16 position) |
| 2    | housing     | LCP [UL94V-0]   | black                                   |
| 3    | face plate  | stainless steel |                                         |
| 4    | terminals   | copper alloy    | gold                                    |

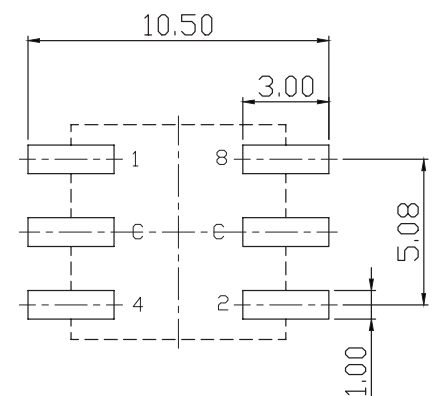
### 10 POSITION



### 16 POSITION



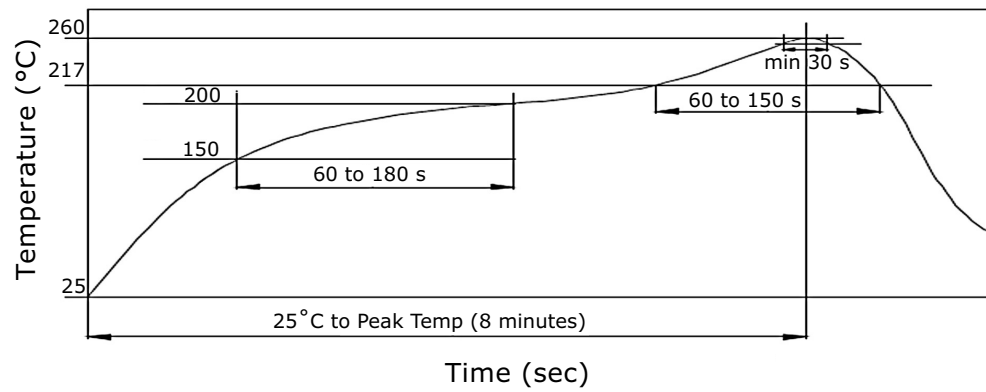
| ON ○    |   |      |   |   |   |   |
|---------|---|------|---|---|---|---|
| OFF ●   |   | CODE |   |   |   |   |
| TYPE    |   | POS  | 1 | 2 | 4 | 8 |
| 10 STEP | 0 | ●    | ● | ● | ● | ● |
|         | 1 | ○    | ● | ● | ● | ● |
|         | 2 | ●    | ○ | ● | ● | ● |
|         | 3 | ○    | ○ | ●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



Recommended PCB Layout  
Top View

## SOLDERABILITY

| parameter        | conditions/description | min | typ | max | units |
|------------------|------------------------|-----|-----|-----|-------|
| hand soldering   | for maximum 3 seconds  |     |     | 350 | °C    |
| reflow soldering |                        | 255 |     | 260 | °C    |

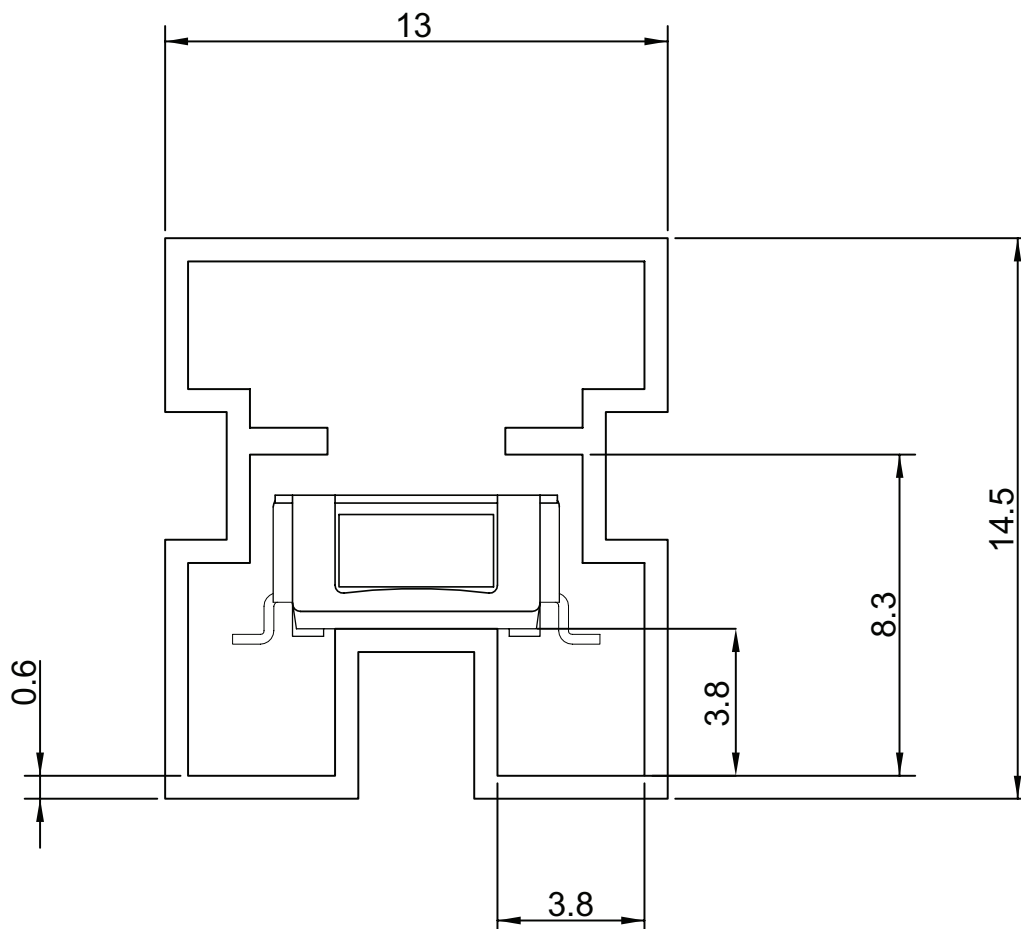


## PACKAGING (TUBE)

units: mm

Tube Size: 13.0 x 14.50 x 540 mm

Tube QTY: 70 pcs

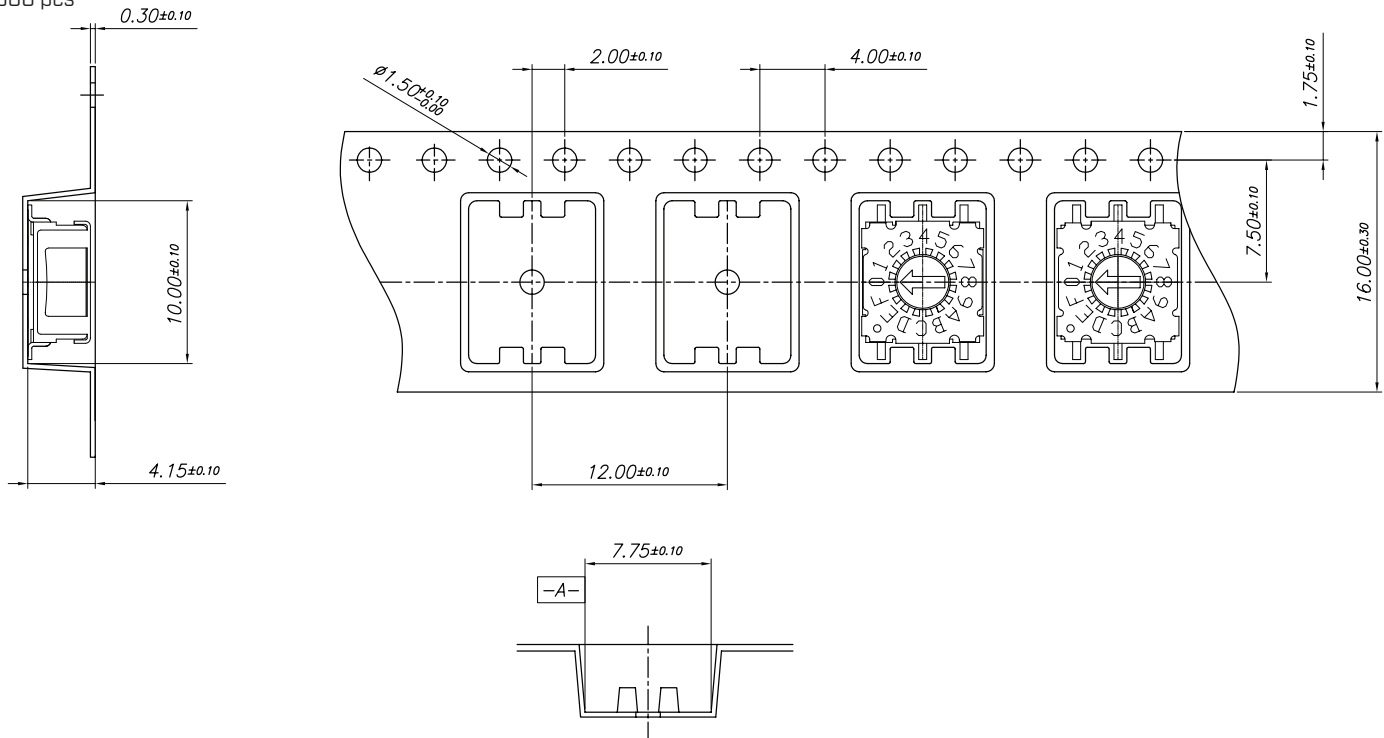


## PACKAGING (TAPE & REEL )

units: mm

Reel Size: Ø330 mm

QTY: 600 pcs



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 10/06/2020 |
| 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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