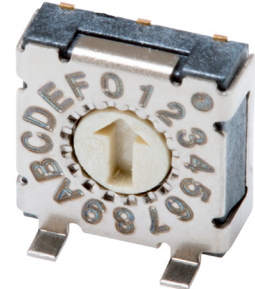


**SERIES:** RDS-7229-ASMT | **DESCRIPTION:** ROTARY DIP SWITCH

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**FEATURES**

- IP67 rated
- 4, 10, & 16 positions
- angled surface mount

**SPECIFICATIONS**

| parameter             | conditions/description                | min | typ    | max        | units      |
|-----------------------|---------------------------------------|-----|--------|------------|------------|
| rated voltage         | switching<br>non-switching            |     |        | 50<br>50   | Vdc<br>Vdc |
| rated current         | switching<br>non-switching            |     |        | 100<br>100 | mA<br>mA   |
| withstanding voltage  | for 1 minute                          |     | 250    |            | Vac        |
| contact resistance    |                                       |     |        | 100        | mΩ         |
| insulation resistance | at 100 Vdc                            | 100 |        |            | MΩ         |
| operating torque      |                                       |     |        | 200        | gf*cm      |
| actuator travel       | continuous rotation                   |     | 360    |            | degrees    |
| operating temperature |                                       | -40 |        | 85         | °C         |
| storage temperature   |                                       | -40 |        | 85         | °C         |
| life                  | at 5 Vdc, 100 mA, 15~20 cycles/minute |     | 10,000 |            | steps      |
| flammability rating   | UL94V-0                               |     |        |            |            |
| RoHS                  | yes                                   |     |        |            |            |
| IP level              | IP67 (IEC 60529:2001)                 |     |        |            |            |

**PART NUMBER KEY**

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**RDS - XXS - 7229 - X - ASMT - TR**

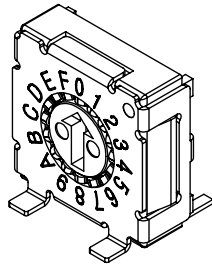
Base Number

No. of Positions:  
4 = 4 Positions  
10 = 10 Positions  
16 = 16 Positions

Actuator Style:  
A = Flat Arrow  
C = Flat Cross  
R = Raised Arrow  
S = Raised Slotted

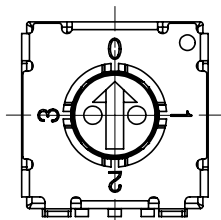
## MECHANICAL DRAWING (FLAT ARROW ACTUATOR)

units: mm  
tolerance:  $\pm 0.1$  mm  
unless otherwise noted

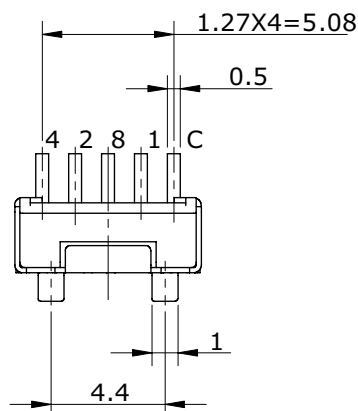
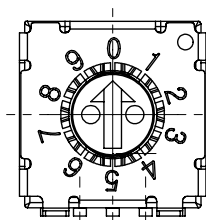


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                                                  |
|------|-------------|-----------------|----------------------------------------------------------------|
| 1    | actuator    | LCP (UL94V-0)   | blue [4 position]<br>gray [10 position]<br>ivory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

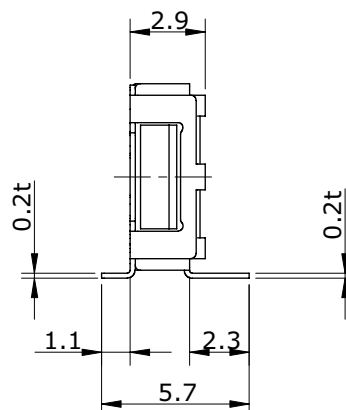
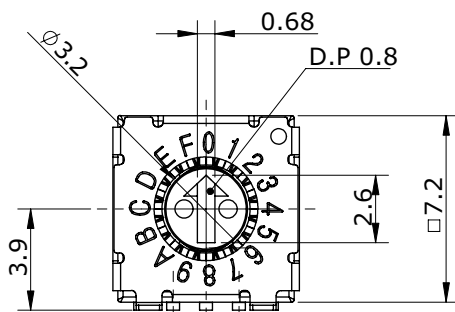
4 POSITION



10 POSITION

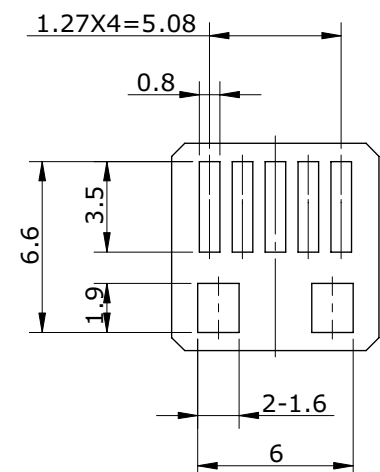


16 POSITION



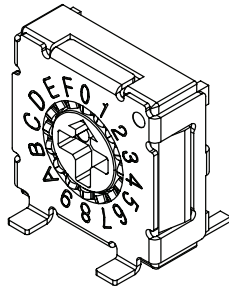
| ON ○    |         |     |      |   |   |   |
|---------|---------|-----|------|---|---|---|
| OFF ●   |         |     | CODE |   |   |   |
| TYPE    |         | POS | 1    | 2 | 4 | 8 |
| 4 STEP* | 4 STEP* | 0   | ●    | ● | ● | ● |
|         |         | 1   | ○    | ● | ● | ● |
|         |       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

Note: \*Terminals 4 and 8 have no function on 4 position model.

Recommended PCB Layout  
Top View

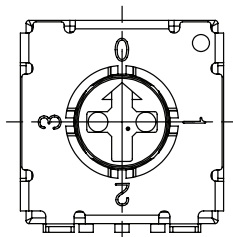
## MECHANICAL DRAWING (FLAT CROSS ACTUATOR)

units: mm  
tolerance:  $\pm 0.1$  mm  
unless otherwise noted

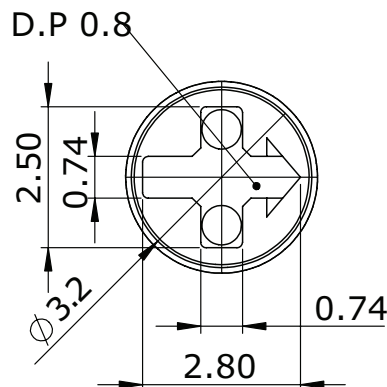
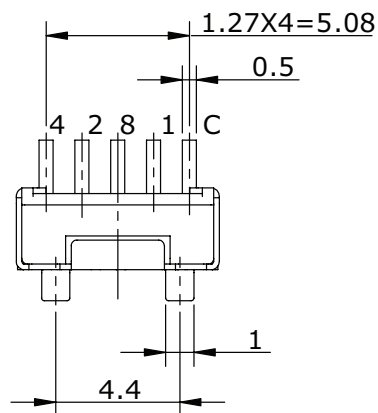
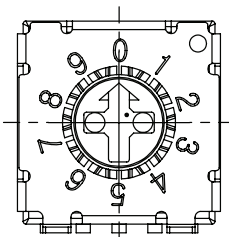


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                                                  |
|------|-------------|-----------------|----------------------------------------------------------------|
| 1    | actuator    | LCP (UL94V-0)   | blue [4 position]<br>gray [10 position]<br>ivory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

4 POSITION



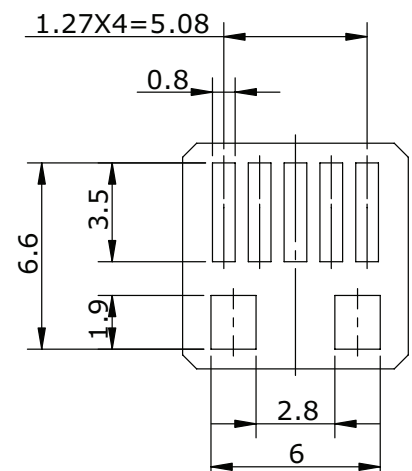
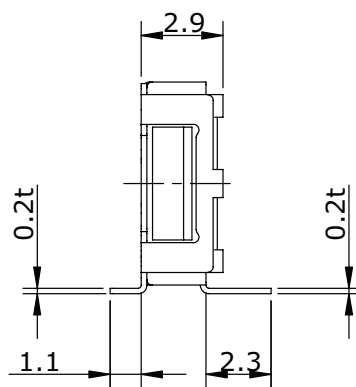
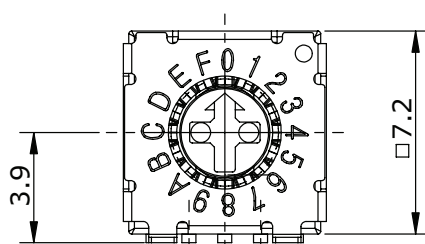
10 POSITION



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

Note: \*Terminals 4 and 8 have no function on 4 position model.

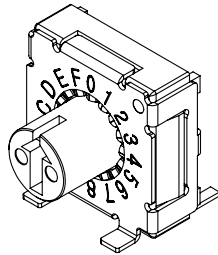
16 POSITION



Recommended PCB Layout  
Top View

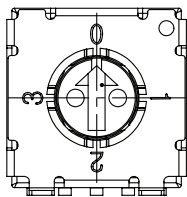
## MECHANICAL DRAWING (RAISED ARROW ACTUATOR)

units: mm  
tolerance:  $\pm 0.1$  mm  
unless otherwise noted

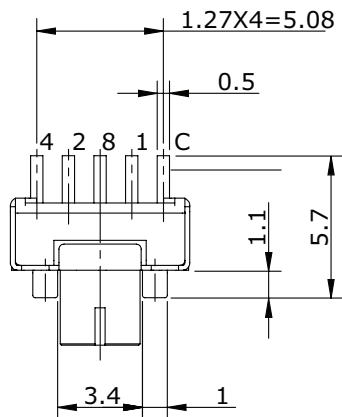
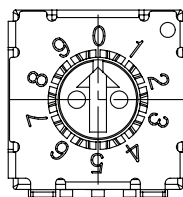


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                                                  |
|------|-------------|-----------------|----------------------------------------------------------------|
| 1    | actuator    | LCP (UL94V-0)   | blue [4 position]<br>gray [10 position]<br>ivory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

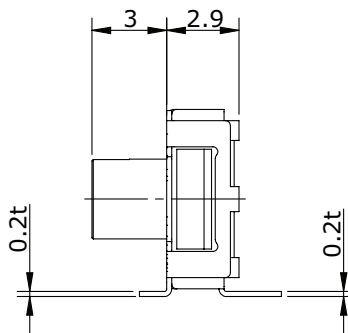
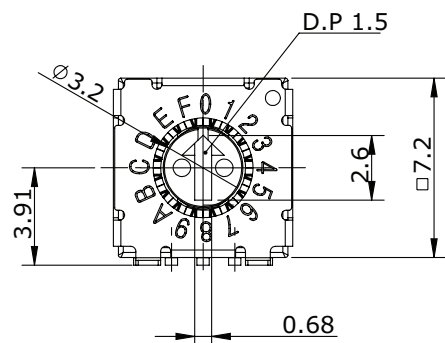
4 POSITION



10 POSITION

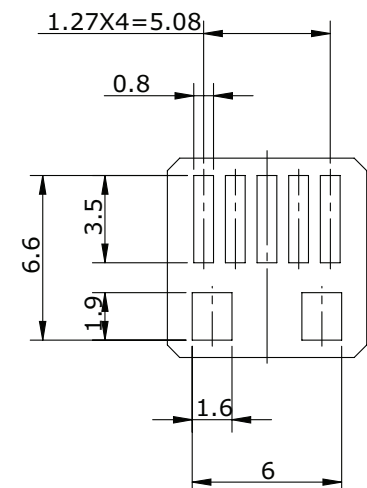


16 POSITION



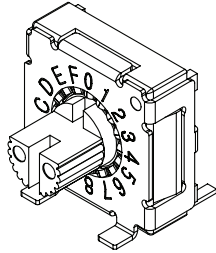
| ON ○    |         |      |   |   |   |   |
|---------|---------|------|---|---|---|---|
| OFF ●   |         | CODE |   |   |   |   |
| TYPE    |         | POS  | 1 | 2 | 4 | 8 |
| 4 STEP* |         | 0    | ● | ● | ● | ● |
|         |         | 1    | ○ | ● | ● | ● |
|         |         | 2    | ●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

Note: \*Terminals 4 and 8 have no function on 4 position model.

Recommended PCB Layout  
Top View

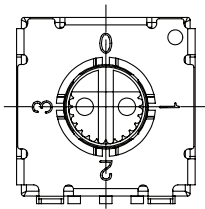
## MECHANICAL DRAWING (RAISED SLOTTED ACTUATOR)

units: mm  
tolerance:  $\pm 0.1$  mm  
unless otherwise noted

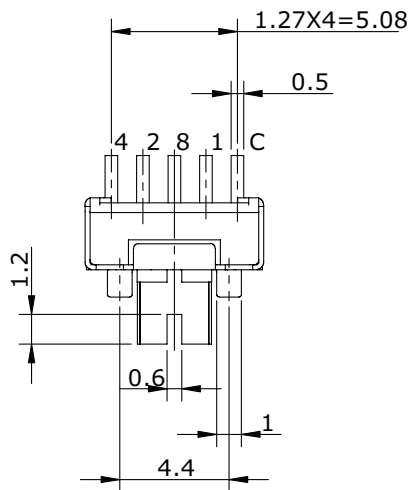
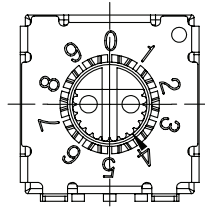


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                                                  |
|------|-------------|-----------------|----------------------------------------------------------------|
| 1    | actuator    | LCP (UL94V-0)   | blue [4 position]<br>gray [10 position]<br>ivory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

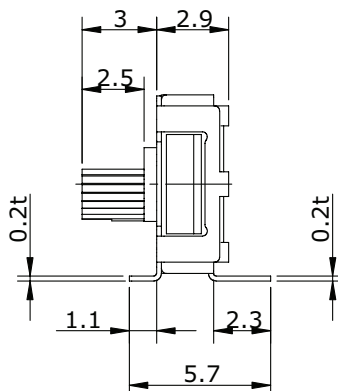
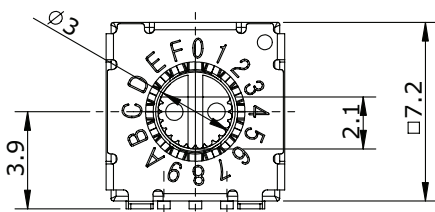
4 POSITION



10 POSITION

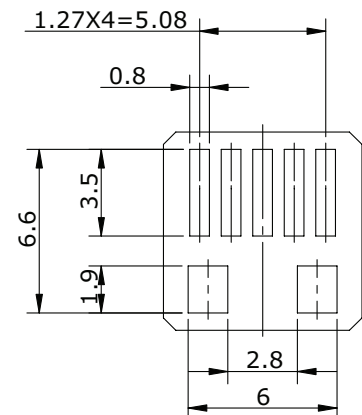


16 POSITION



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

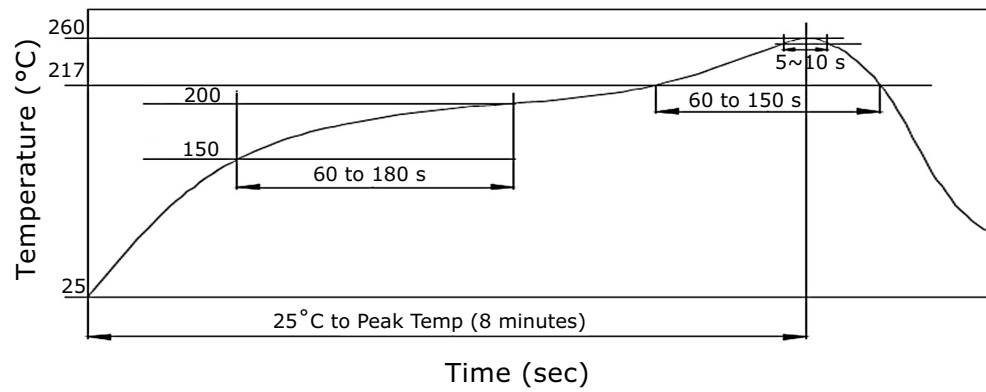
Note: \*Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout  
Top View

## SOLDERABILITY

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



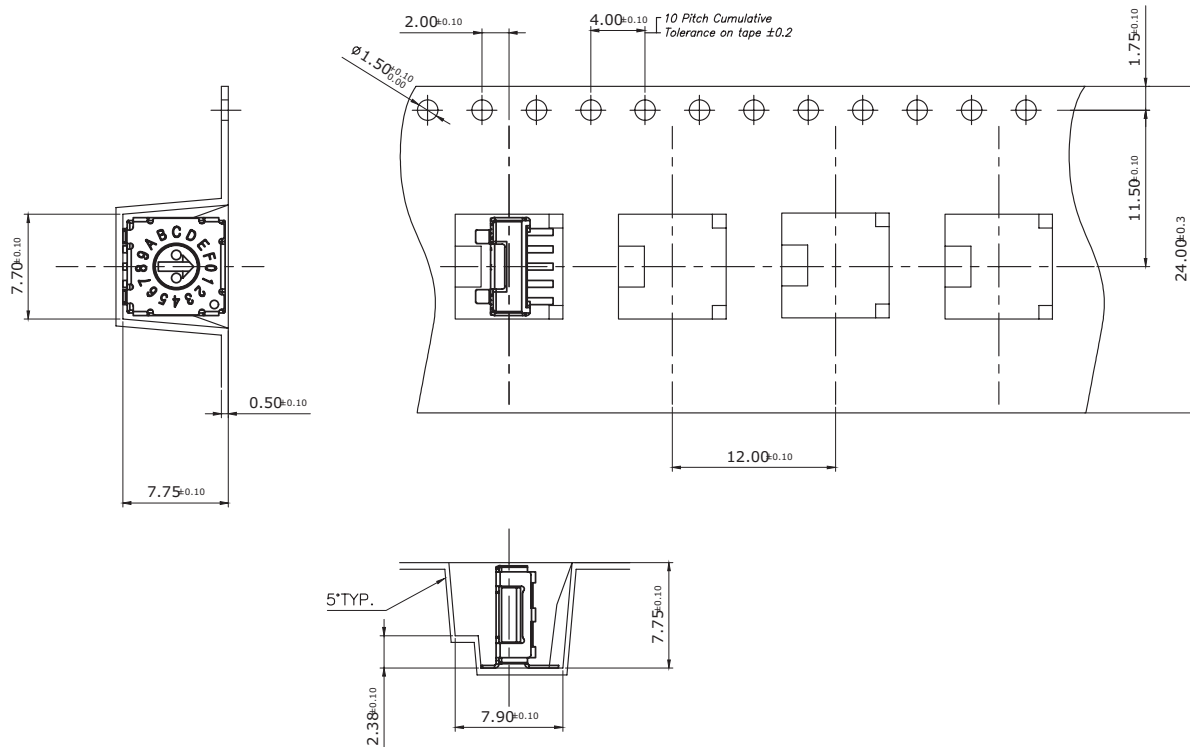
## PACKAGING

units: mm

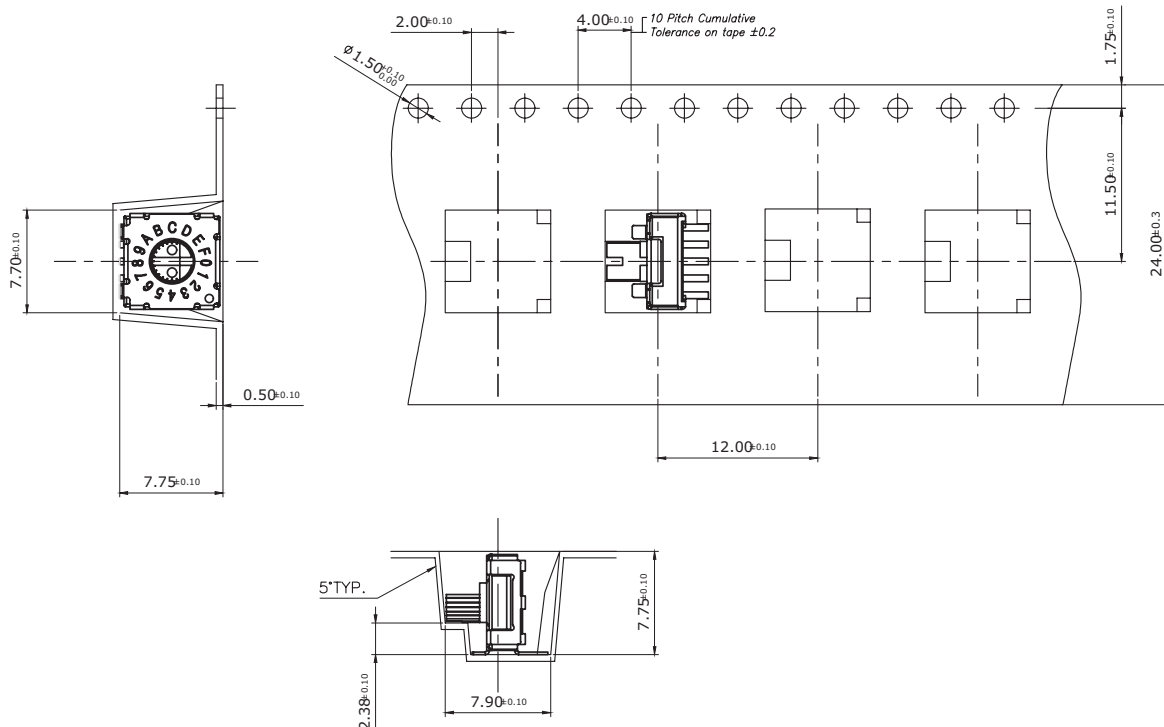
Reel Size: Ø330 mm

QTY: 580 pcs

### FLAT ACTUATOR MODELS



### RAISED ACTUATOR MODELS



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 12/11/2020 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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

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