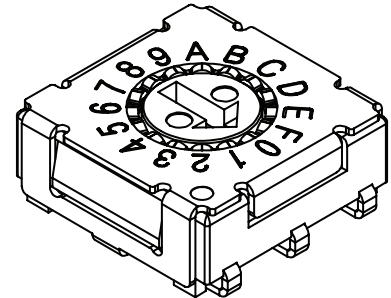


SERIES: RDS-7229-JSMT | DESCRIPTION: ROTARY DIP SWITCH

FEATURES

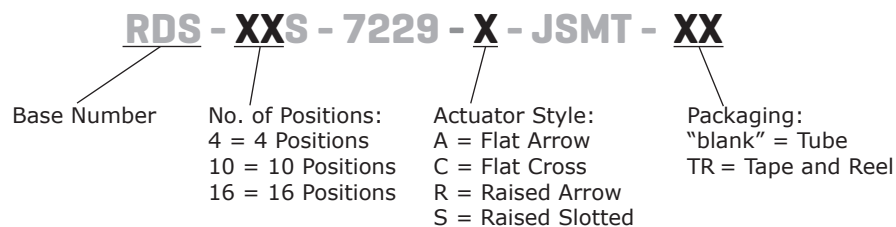
- IP67 rated
- 4, 10, & 16 positions
- J hook surface mount



SPECIFICATIONS

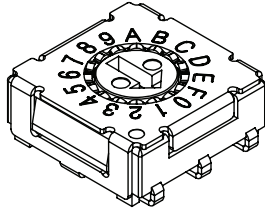
| parameter | conditions/description | min | typ | max | units |
|-----------------------|---------------------------------------|-----|--------|-----|---------|
| rated voltage | switching | | | 50 | Vdc |
| | non-switching | | | 50 | Vdc |
| rated current | switching | | | 100 | mA |
| | non-switching | | | 100 | 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



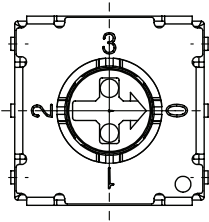
MECHANICAL DRAWING (FLAT ARROW ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

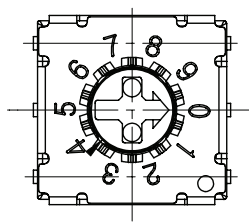


| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|-----------------|--|
| 1 | actuator | LCP (UL94V-0) | blue (4 position) gray (10 position) ivory (16 position) |
| 2 | housing | LCP (UL94V-0) | dark gray |
| 3 | face plate | stainless steel | |
| 4 | terminals | copper alloy |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

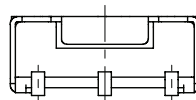
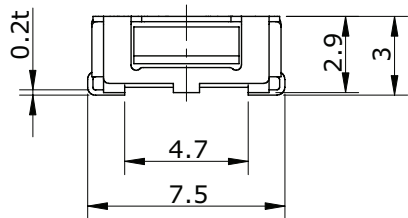
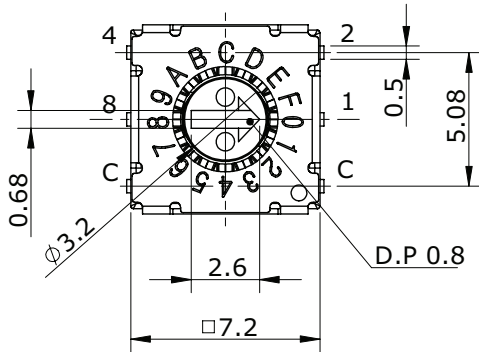
4 POSITION



10 POSITION

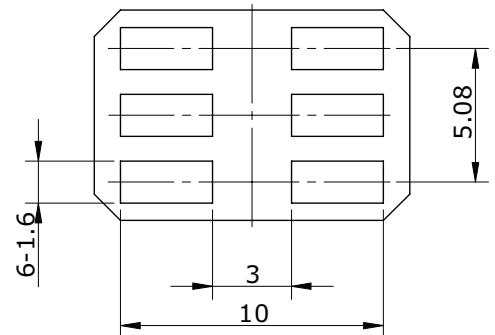


16 POSITION



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

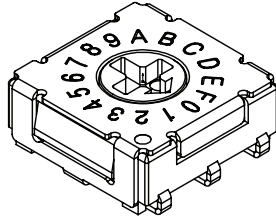
Note: *Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout
Top View

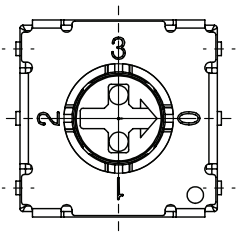
MECHANICAL DRAWING (FLAT CROSS ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

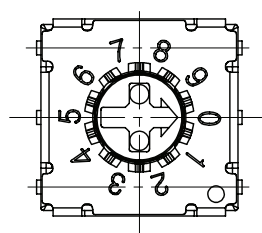


| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|-----------------|--|
| 1 | actuator | LCP (UL94V-0) | blue (4 position) gray (10 position) ivory (16 position) |
| 2 | housing | LCP (UL94V-0) | dark gray |
| 3 | face plate | stainless steel | |
| 4 | terminals | copper alloy |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

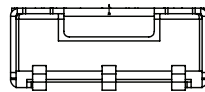
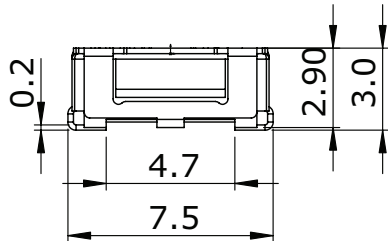
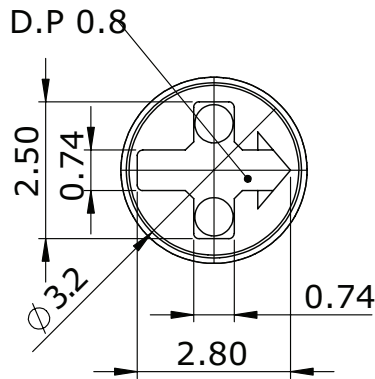
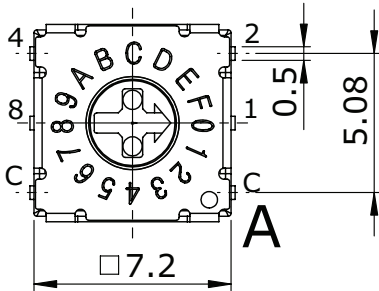
4 POSITION



10 POSITION

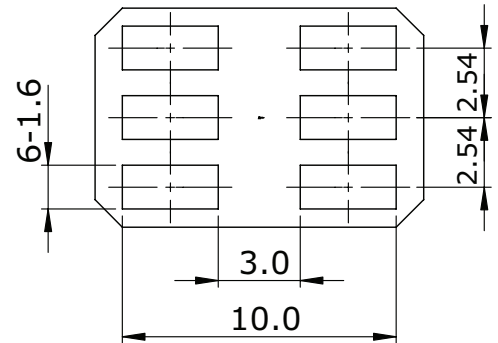


16 POSITION



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

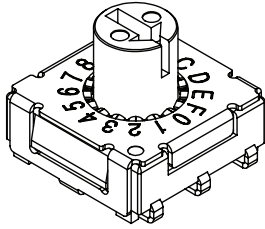
Note: *Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout
Top View

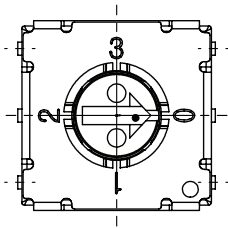
MECHANICAL DRAWING (RAISED ARROW ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

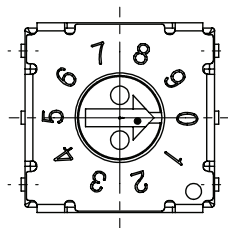


| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|-----------------|--|
| 1 | actuator | LCP (UL94V-0) | blue (4 position) gray (10 position) ivory (16 position) |
| 2 | housing | LCP (UL94V-0) | dark gray |
| 3 | face plate | stainless steel | |
| 4 | terminals | copper alloy |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

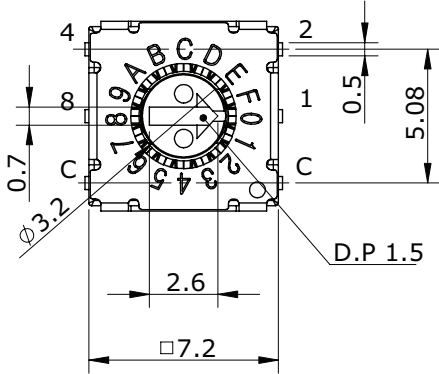
4 POSITION



10 POSITION

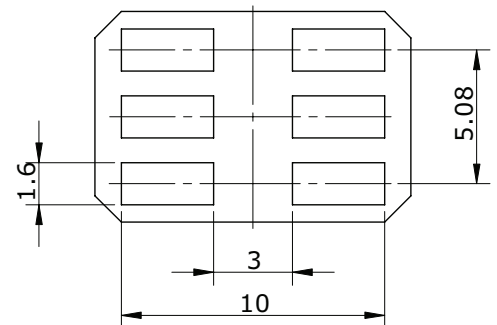
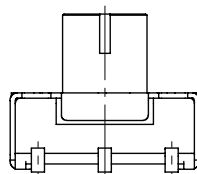
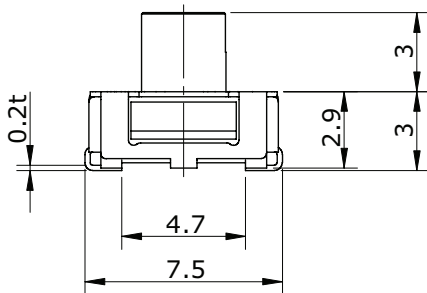


16 POSITION



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

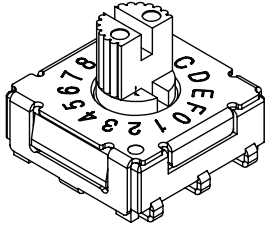
Note: *Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout
Top View

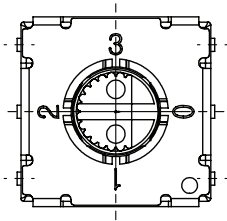
MECHANICAL DRAWING (RAISED SLOTTED ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

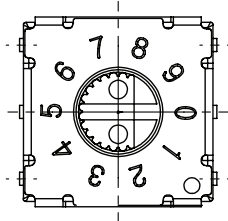


| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|-----------------|--|
| 1 | actuator | LCP (UL94V-0) | blue (4 position) gray (10 position) ivory (16 position) |
| 2 | housing | LCP (UL94V-0) | dark gray |
| 3 | face plate | stainless steel | |
| 4 | terminals | copper alloy |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

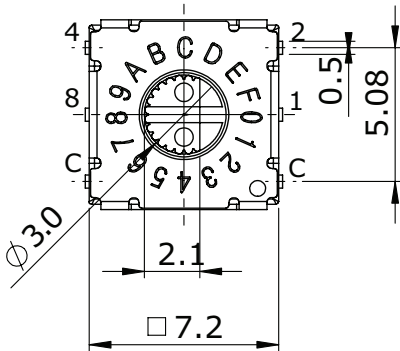
4 POSITION



10 POSITION

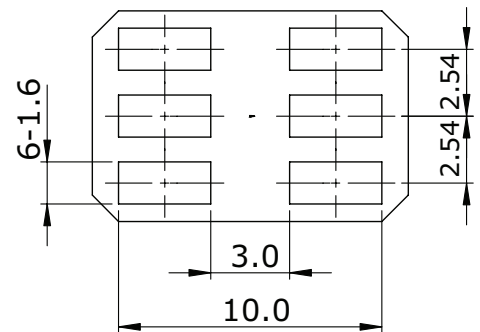
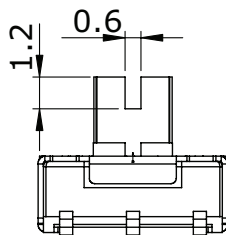
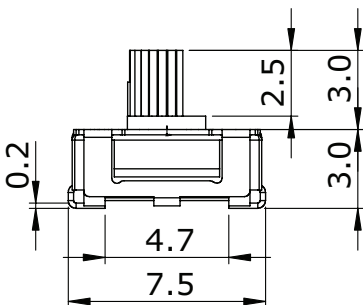


16 POSITION



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

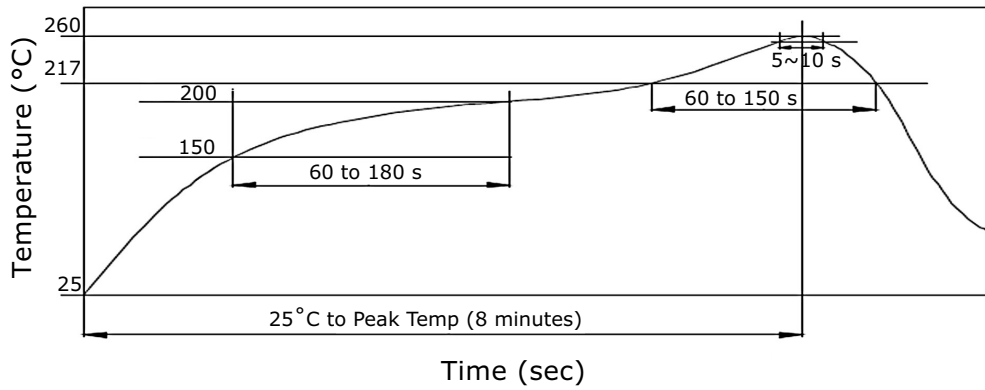
Note: *Terminals 4 and 8 have no function on 4 position model.



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 |



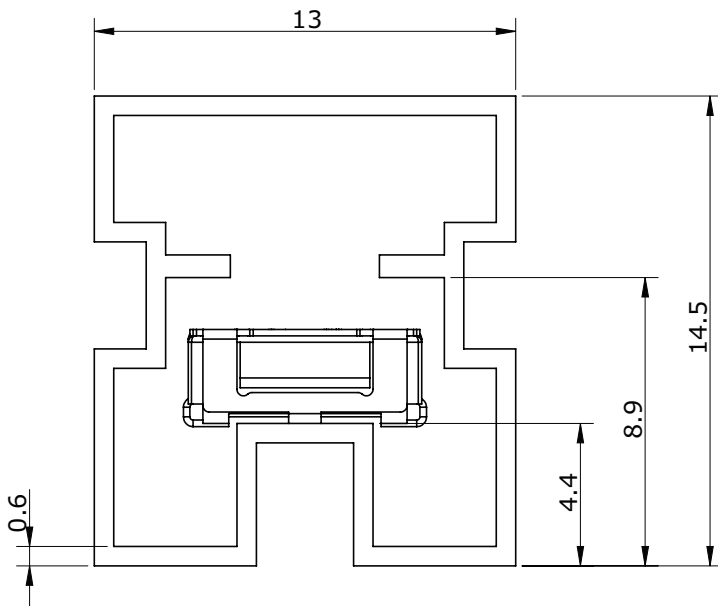
PACKAGING (TUBE)

units: mm

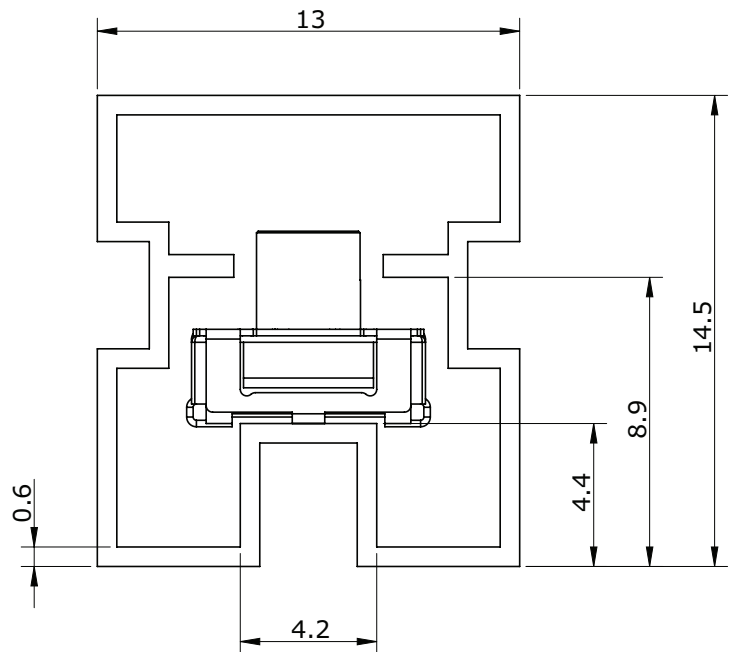
Tube Size: 14.5 x 13.0 x 545 mm

Tube QTY: 70 pcs

FLAT ACTUATOR MODELS



RAISED ACTUATOR MODELS



PACKAGING (TAPE & REEL)

units: mm

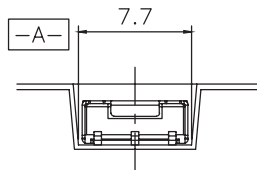
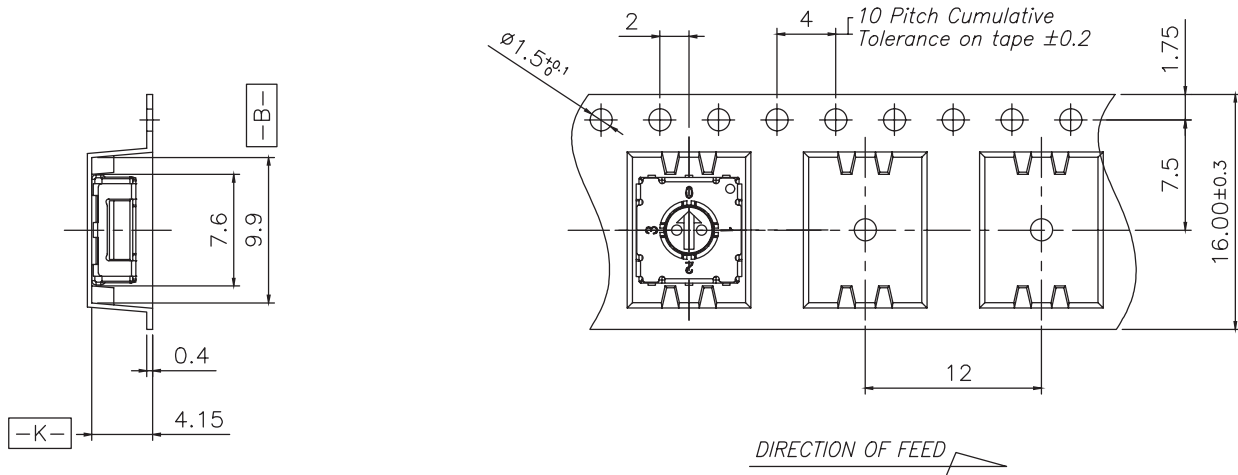
Reel Size: Ø330 mm

QTY:

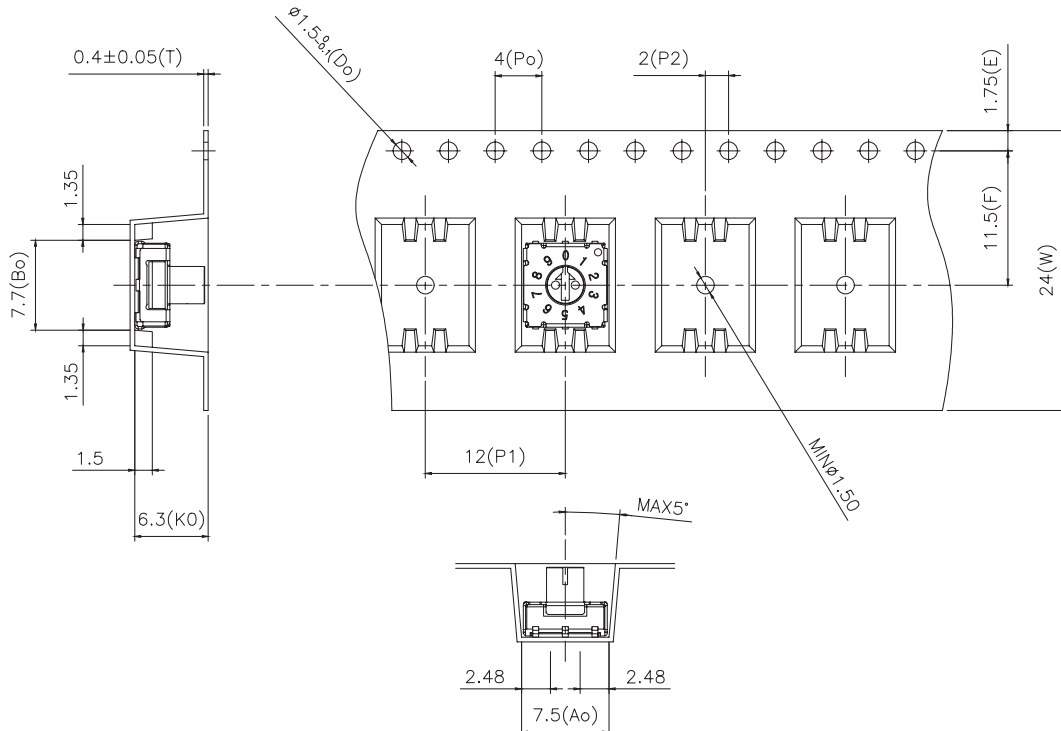
Flat actuator models: 1,300 pcs/reel

Raised actuator models: 800 pcs/reel

FLAT ACTUATOR MODELS



RAISED ACTUATOR MODELS



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 12/11/2020 |

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

CUI DEVICES

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

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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