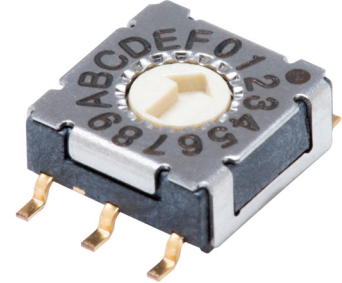


SERIES: RDS-7229-SMT | **DESCRIPTION:** ROTARY DIP SWITCH

FEATURES

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

**SPECIFICATIONS**

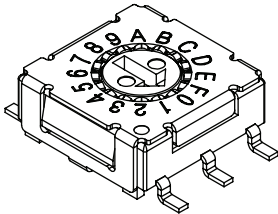
parameter	conditions/description	min	typ	max	units
rated voltage	switching non-switching			50 50	Vdc Vdc
rated current	switching non-switching			100 100	mA mA
withstanding voltage	for 1 minute		250		Vac
contact resistance				100	mΩ
insulation resistance	at 100 Vdc	100			MΩ
operating torque				200	gf*cm
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

RDS - <u>XXS</u> - 7229 - <u>X</u> - SMT - <u>XX</u>			
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	Packaging: "blank" = Tube TR = Tape and Reel

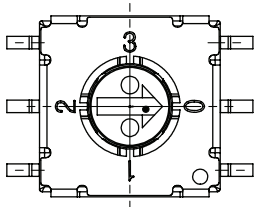
MECHANICAL DRAWING (FLAT ARROW ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

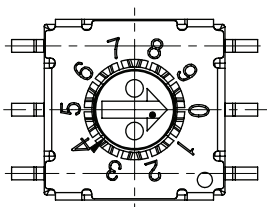


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	actuator	LCP (UL94V-0)	blue [4 position] gray [10 position] ivory [16 position]
2	housing	LCP (UL94V-0)	dark gray
3	face plate	stainless steel	
4	terminals	copper alloy	gold

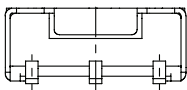
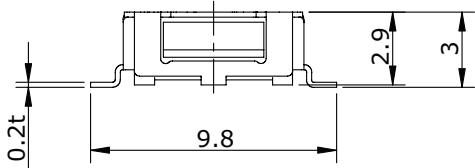
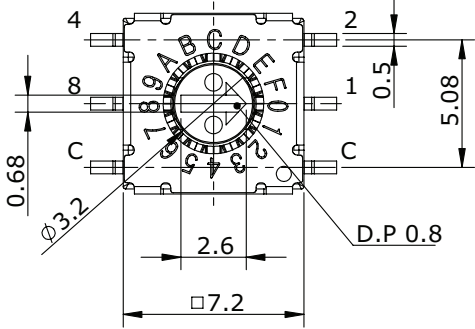
4 POSITION



10 POSITION

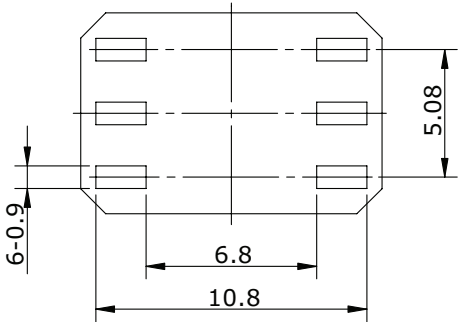


16 POSITION



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	○	○	○	○

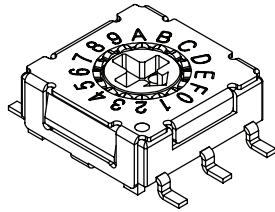
Note: *Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout
Top View

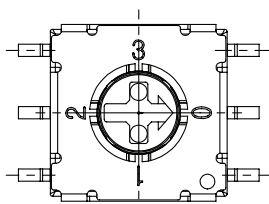
MECHANICAL DRAWING (FLAT CROSS ACTUATOR)

units: mm
tolerance: ± 0.1 mm
unless otherwise noted

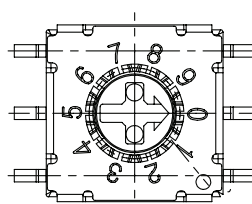


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	actuator	LCP (UL94V-0)	blue [4 position] gray [10 position] ivory [16 position]
2	housing	LCP (UL94V-0)	dark gray
3	face plate	stainless steel	
4	terminals	copper alloy	gold

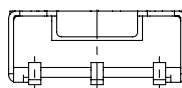
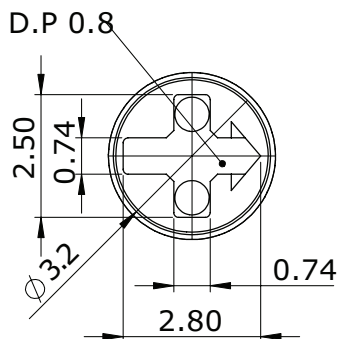
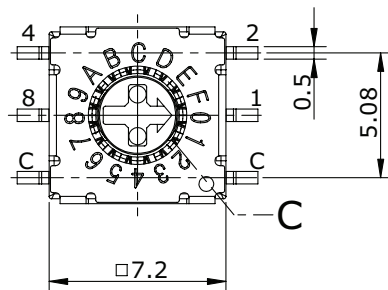
4 POSITION



10 POSITION

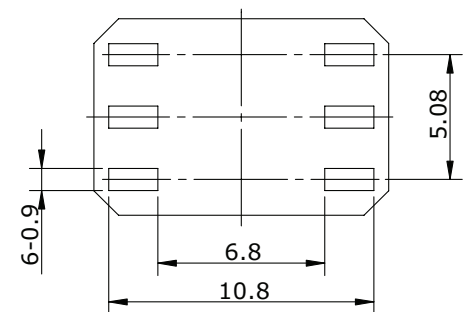


16 POSITION



ON ○						
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	○	○	○	○

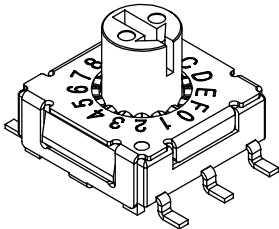
Note: *Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout
Top View

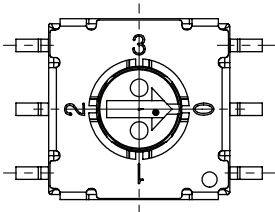
MECHANICAL DRAWING (RAISED ARROW ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

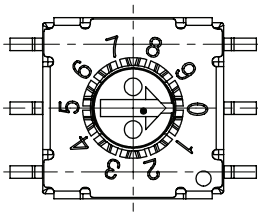


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	actuator	LCP (UL94V-0)	blue [4 position] gray [10 position] ivory [16 position]
2	housing	LCP (UL94V-0)	dark gray
3	face plate	stainless steel	
4	terminals	copper alloy	gold

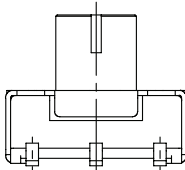
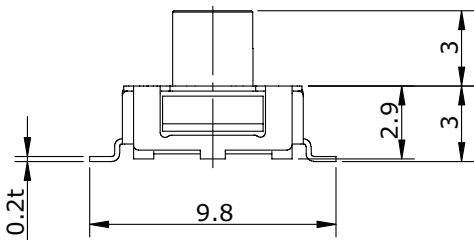
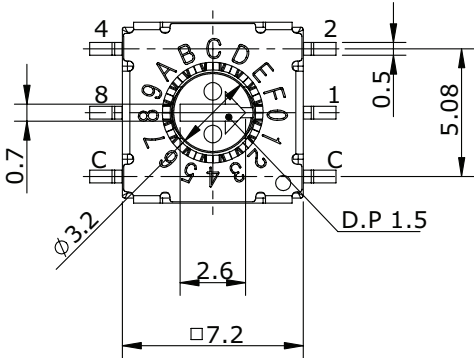
4 POSITION



10 POSITION

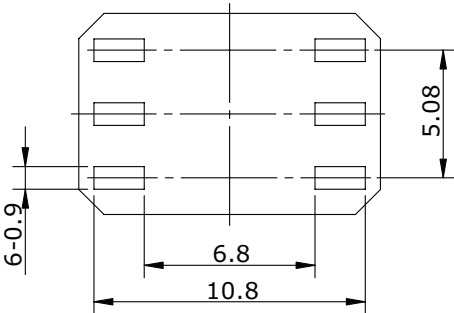


16 POSITION



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	○	○	○	○

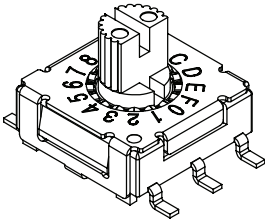
Note: *Terminals 4 and 8 have no function on 4 position model.



Recommended PCB Layout
Top View

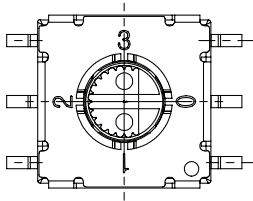
MECHANICAL DRAWING (RAISED SLOTTED ACTUATOR)

units: mm
tolerance: ±0.1 mm
unless otherwise noted

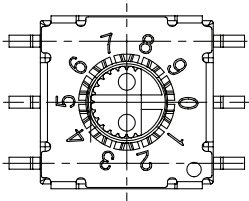


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	actuator	LCP (UL94V-0)	blue [4 position] gray [10 position] ivory [16 position]
2	housing	LCP (UL94V-0)	dark gray
3	face plate	stainless steel	
4	terminals	copper alloy	gold

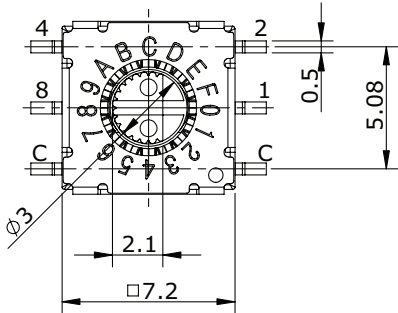
4 POSITION



10 POSITION

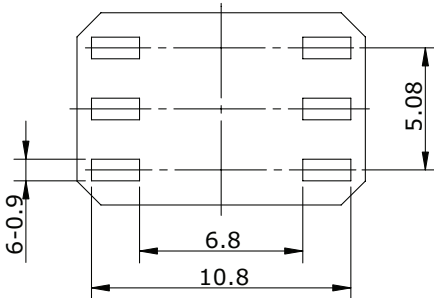
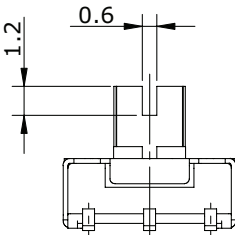
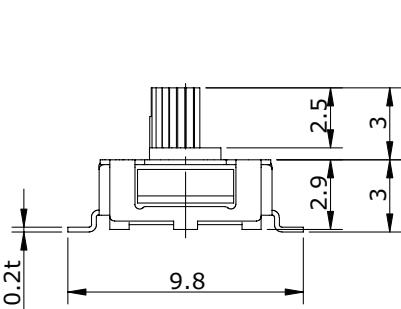


16 POSITION



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	○	○	○	○

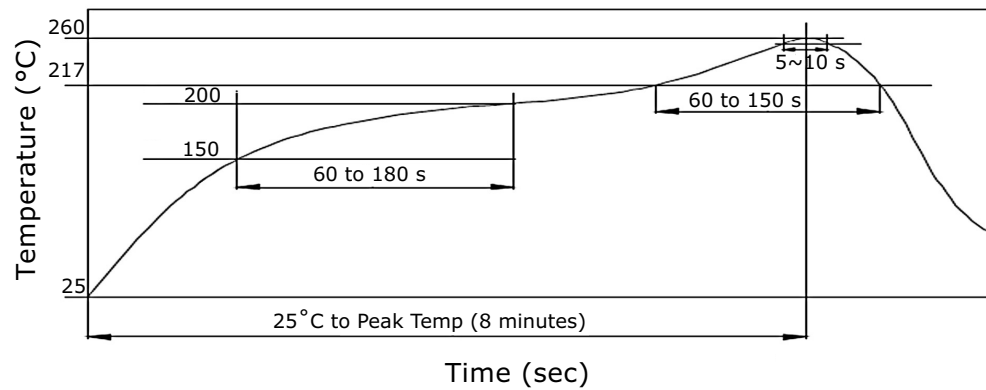
Note: *Terminals 4 and 8 have no function on 4 position model.



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



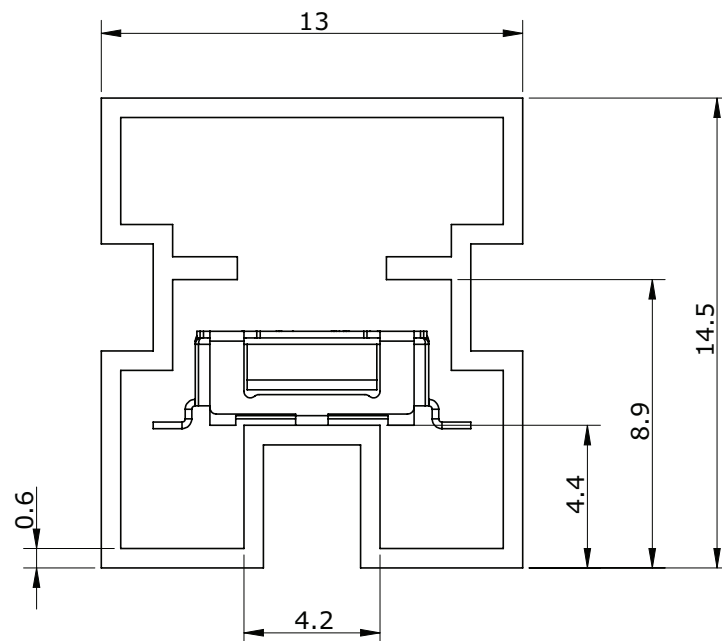
PACKAGING (TUBE)

units: mm

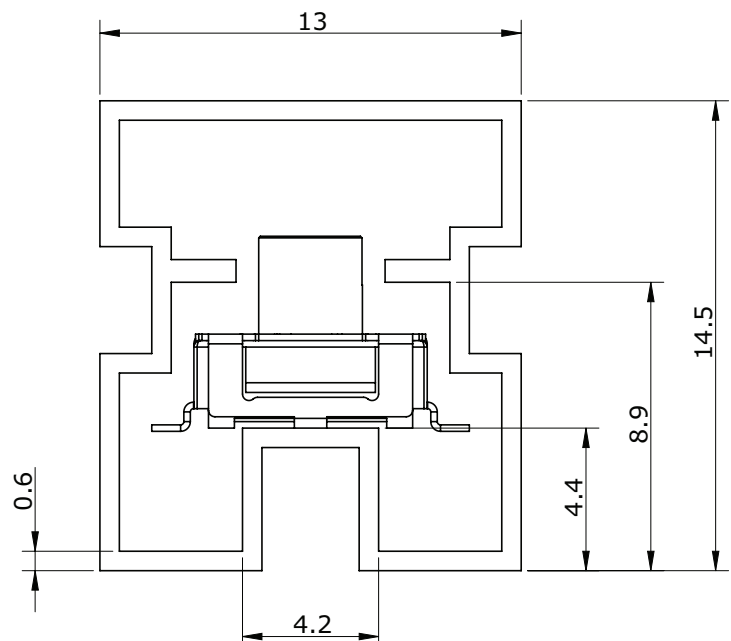
Tube Size: 14.5 x 13.0 x 545 mm

Tube QTY: 70 pcs

FLAT ACTUATOR MODELS



RAISED ACTUATOR MODELS



PACKAGING (TAPE & REEL)

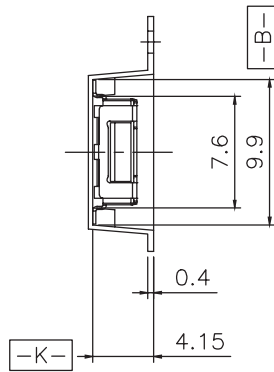
units: mm

Reel Size: Ø330 mm

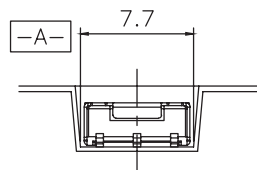
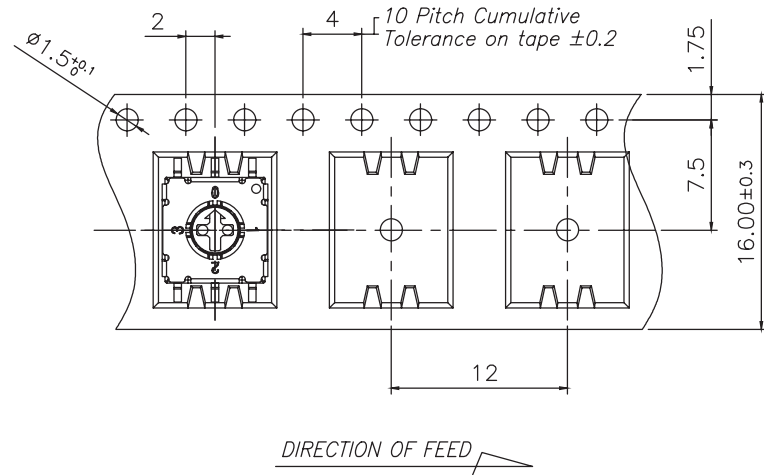
QTY:

Flat actuator models: 1,300 pcs/reel

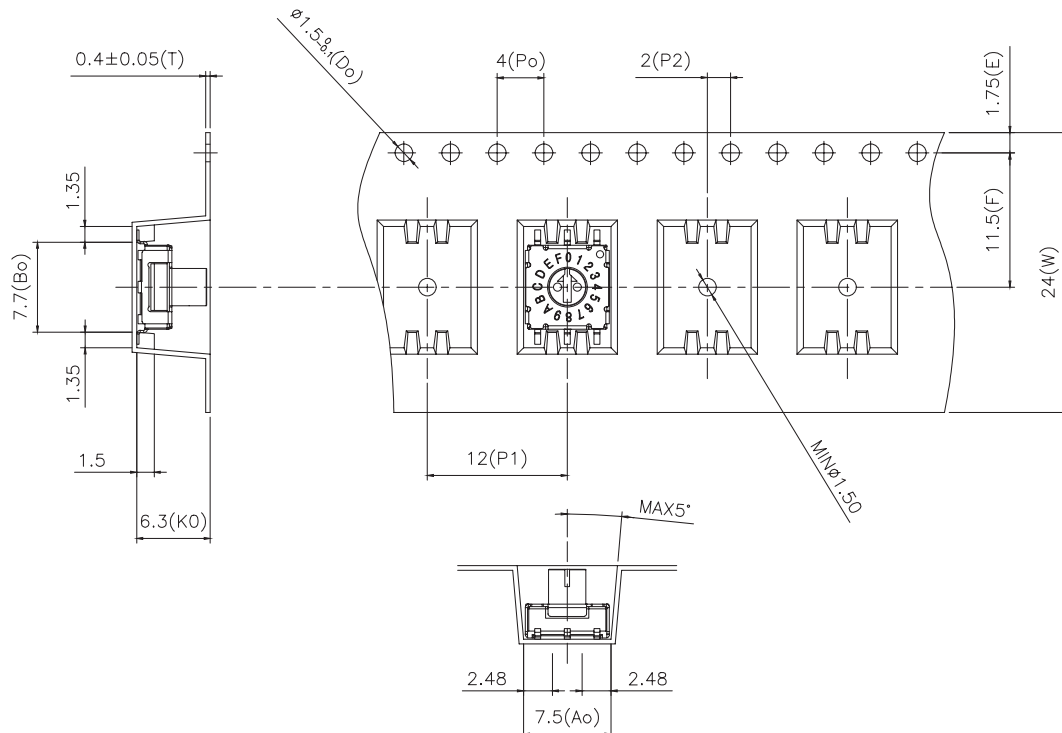
Raised actuator models: 800 pcs/reel



FLAT ACTUATOR MODELS



RAISED ACTUATOR MODELS



REVISION HISTORY

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