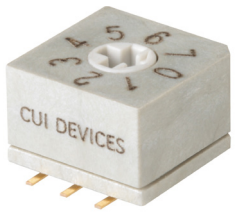
CUIDEVICES

SERIES: RDS6-1065-SMT | **DESCRIPTION:** ROTARY DIP SWITCH

FEATURES

- 4, 8, 10 & 16 position
- removable cap options
- cross actuated



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage	switching non-switching			42 42	Vdc Vdc
rated current	switching non-switching			150 200	mA mA
withstanding voltage	for 1 minute		250		Vac
contact resistance				80	mΩ
insulation resistance	for 1 minute at 250 Vdc	100			MΩ
operating torque				700	gf*cm
actuator travel	continuous rotation		360		degrees
operating temperature		-40		85	°C
storage temperature		-40		85	°C
life	at 42 Vdc, 150 mA, 15~20 cycles/minute		10,000		steps
flammability rating	see material tables				
RoHS	yes				

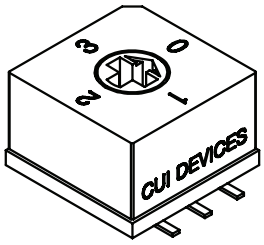
PART NUMBER KEY

RDS6 - XXS - 1065 - X - SMT - TR

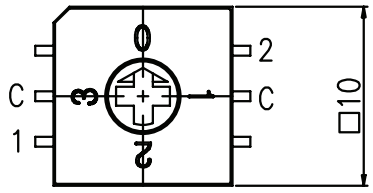
- RDS6 — Base Number
- XX — No. of Positions:
  4 = 4 Positions
  8 = 8 Positions
  10 = 10 Positions
  16 = 16 Positions
- X — Actuator Cap:
  “blank” = Without Cap
  1 = Notched Cap
  2 = Raised Slotted Cap
  3 = Numbered Dial

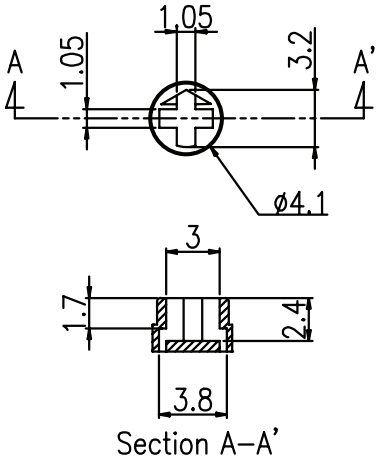
MECHANICAL DRAWING (4 POSITION)

units: mm
tolerance: ±0.3 mm
unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	PA66 (UL94V-0)	white
cover	LCP (UL94V-0)	gray
base	LCP (UL94V-0)	gray
terminals	phosphorus bronze	Ni/Au

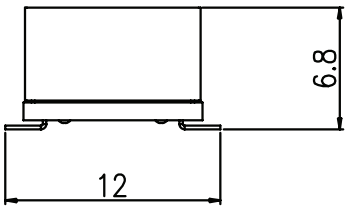


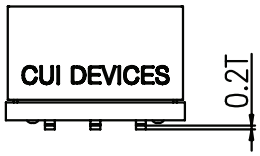


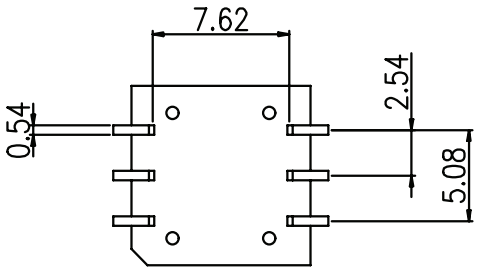
Section A–A'

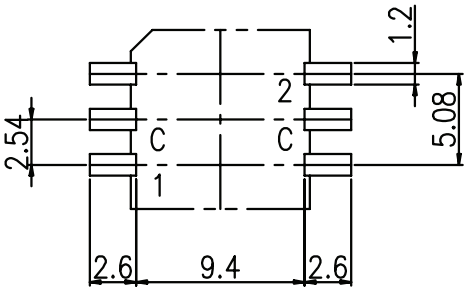
ON ●				
OFF ○		CODE		
TYPE	POS	C	1	2
4 POSITION	0	●	○	○
	1	●	●	○
	2	●	○	●
	3	●	●	●

ACTUATOR







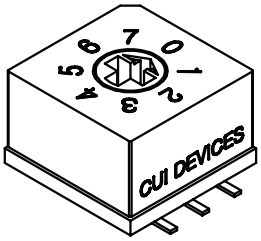


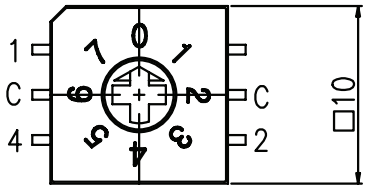
Recommended PCB Layout
Top View

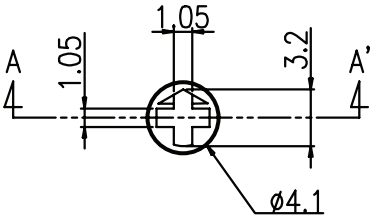
MECHANICAL DRAWING (8 POSITION)

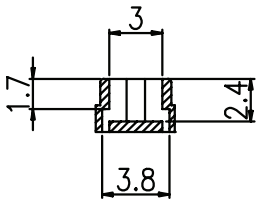
units: mm
tolerance: ±0.3 mm
unless otherwise specified

DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	PA66 (UL94V-0)	white
cover	LCP (UL94V-0)	gray
base	LCP (UL94V-0)	gray
terminals	phosphorus bronze	Ni/Au





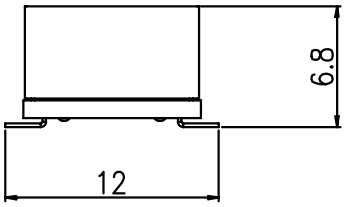


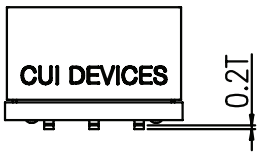


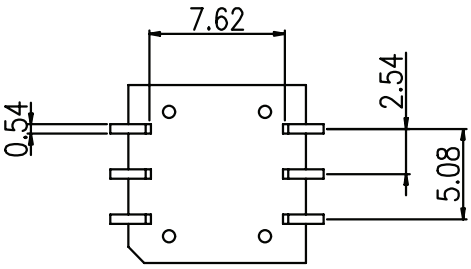
Section A–A'

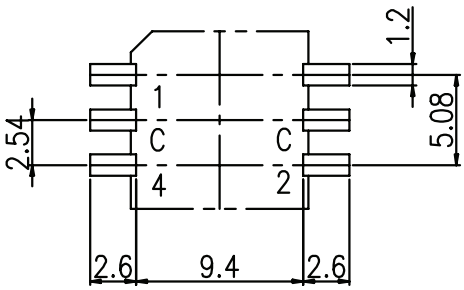
ACTUATOR

ON ●					
OFF ○		CODE			
TYPE	POS	C	1	2	4
8 POSITION	0	●	○	○	○
	1	●	●	○	○
	2	●	○	●	○
	3	●	●	●	○
	4	●	○	○	●
	5	●	●	○	●
	6	●	○	●	●
	7	●	●	●	●





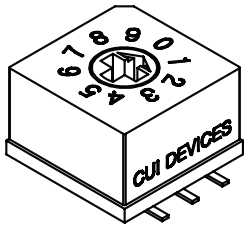




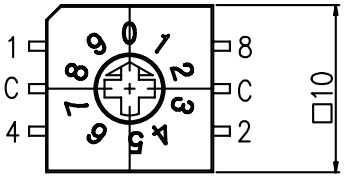
Recommended PCB Layout
Top View

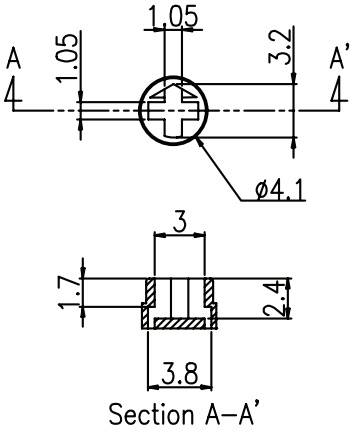
MECHANICAL DRAWING (10 POSITION)

units: mm
tolerance: ±0.3 mm
unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	PA66 (UL94V-0)	white
cover	LCP (UL94V-0)	gray
base	LCP (UL94V-0)	gray
terminals	phosphorus bronze	Ni/Au

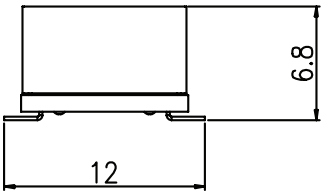


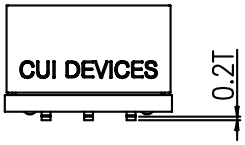


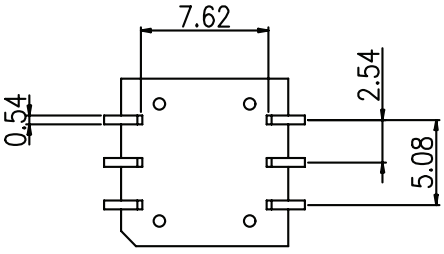
Section A–A'

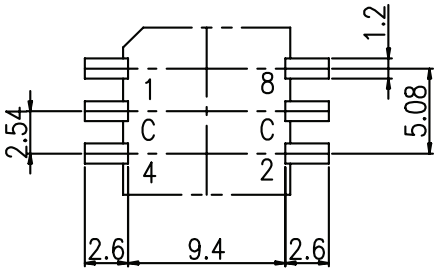
ACTUATOR

ON ●						
OFF ○		CODE				
TYPE	POS	C	1	2	4	8
10 POSITION	0	●	○	○	○	○
	1	●	●	○	○	○
	2	●	○	●	○	○
	3	●	●	●	○	○
	4	●	○	○	●	○
	5	●	●	○	●	○
	6	●	○	●	●	○
	7	●	●	●	●	○
	8	●	○	○	○	●
	9	●	●	○	○	●







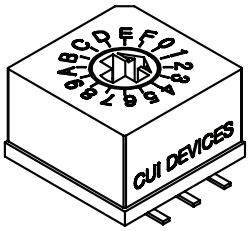


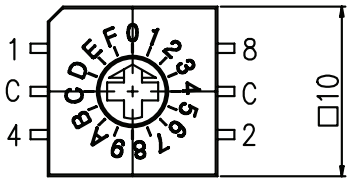
Recommended PCB Layout
Top View

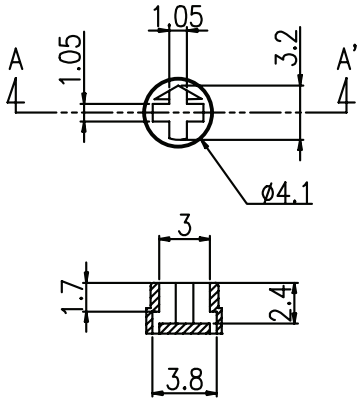
MECHANICAL DRAWING (16 POSITION)

units: mm
tolerance: ±0.3 mm
unless otherwise specified

DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	PA66 (UL94V-0)	white
cover	LCP (UL94V-0)	gray
base	LCP (UL94V-0)	gray
terminals	phosphorus bronze	Ni/Au



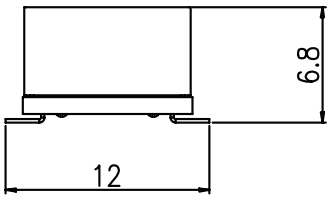


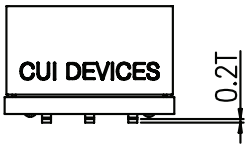


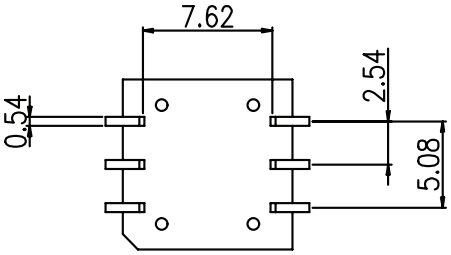
Section A–A'

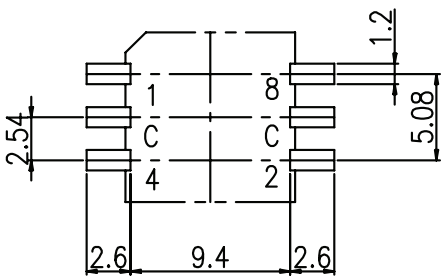
ACTUATOR

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







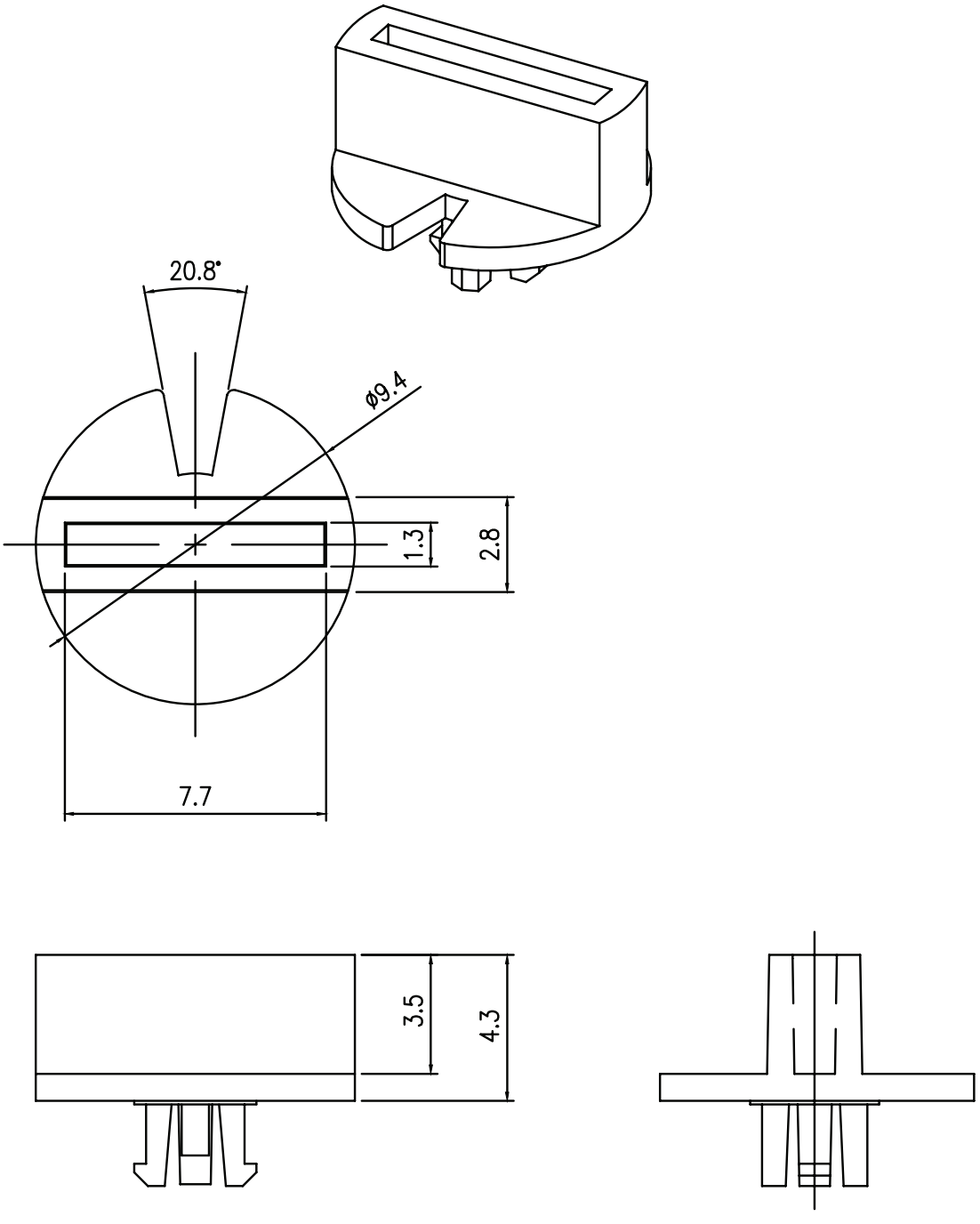


Recommended PCB Layout
Top View

MECHANICAL DRAWING (NOTCHED CAP)

units: mm
tolerance: ±0.1 mm
unless otherwise specified

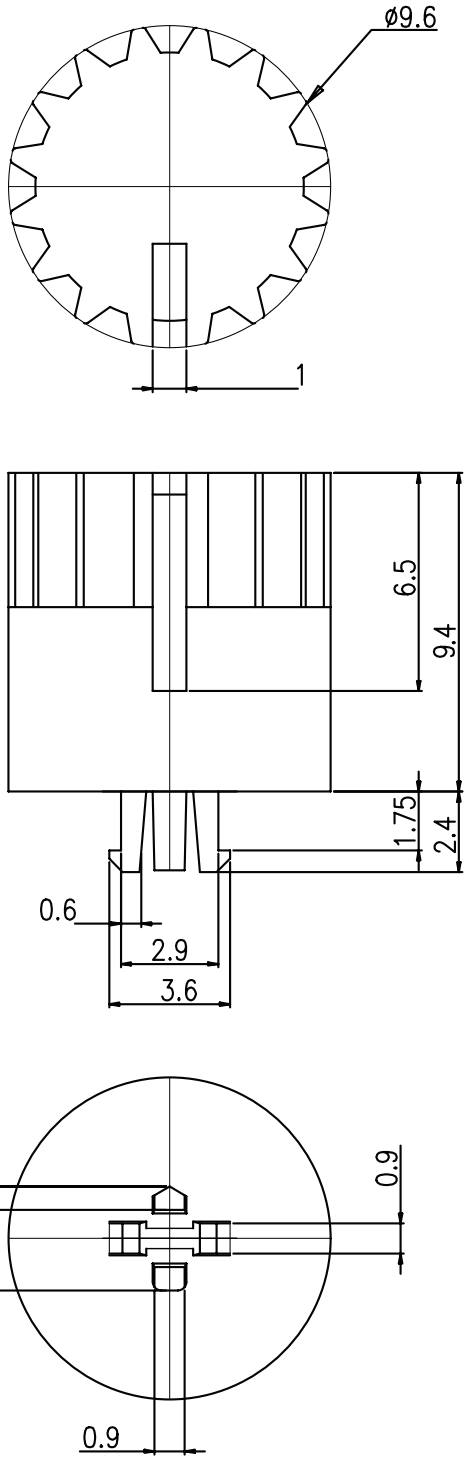
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	gray

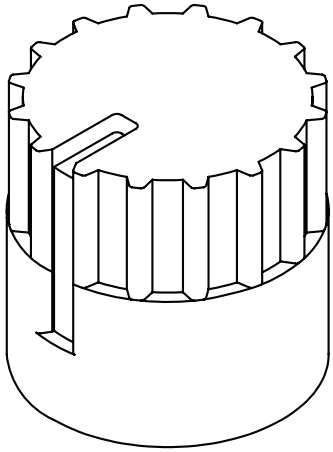


MECHANICAL DRAWING (RAISED SLOTTED CAP)

units: mm
tolerance: ±0.3 mm
unless otherwise specified

DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	black

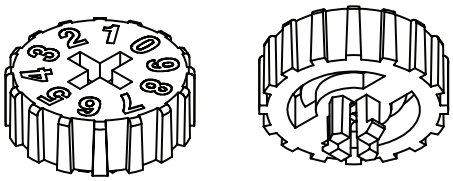


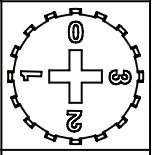
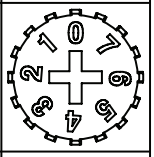
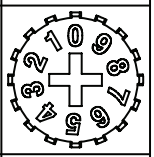
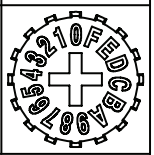


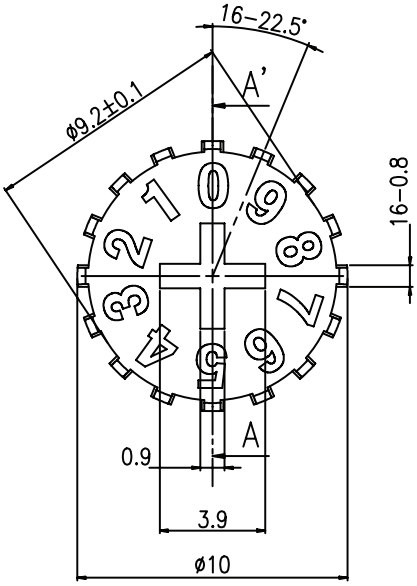
MECHANICAL DRAWING (NUMBERED DIAL)

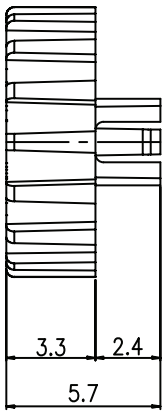
units: mm
tolerance: ±0.3 mm
unless otherwise specified

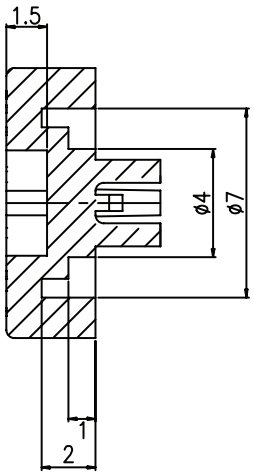
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	red with white letters



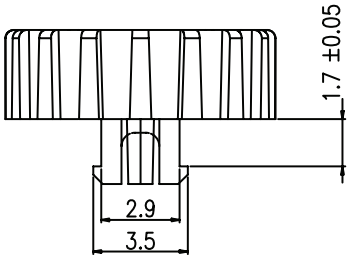
Position	Direction
04	
08	
10	
16	

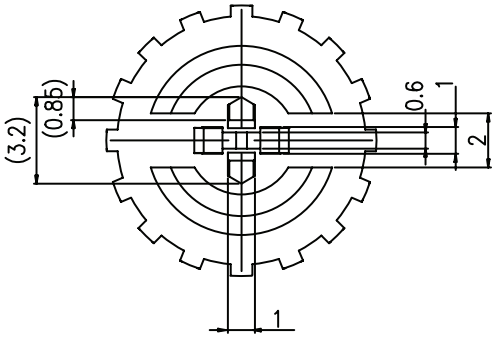






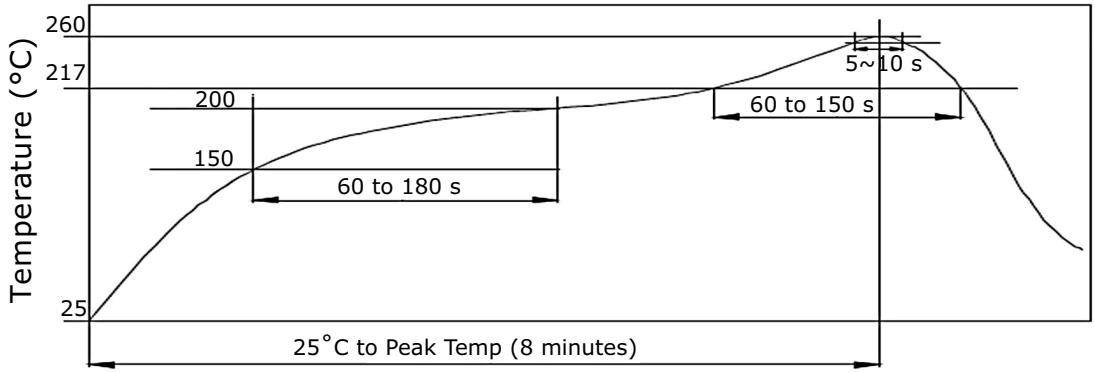
SECTION A–A'





SOLDERABILITY

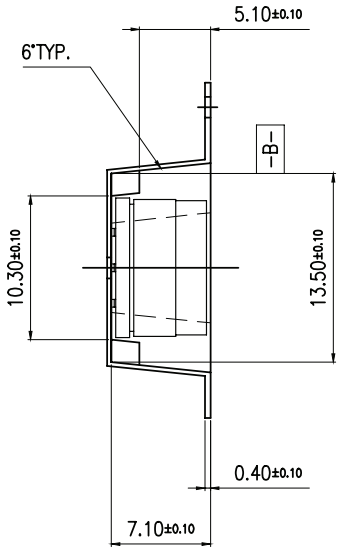
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
reflow soldering	for maximum 5 seconds			260	°C

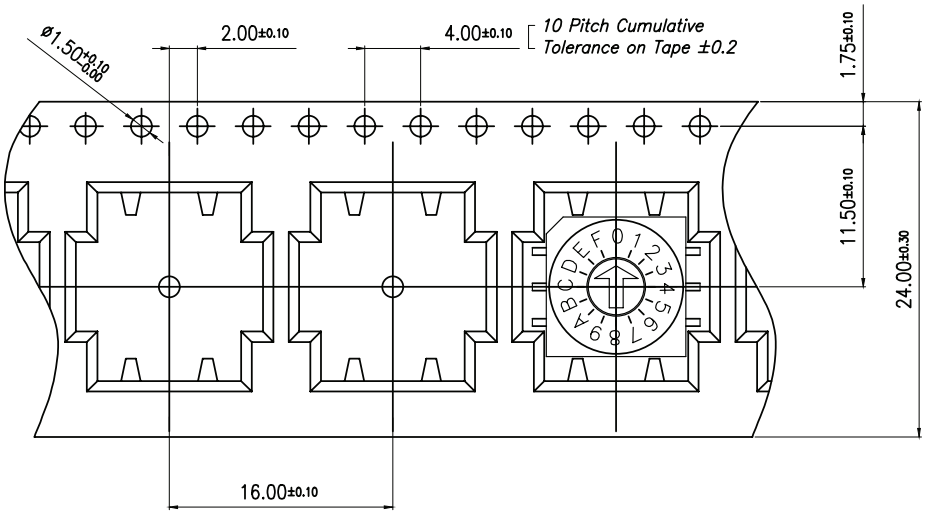


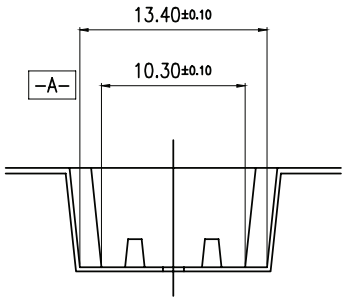
PACKAGING

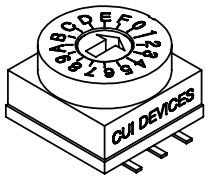
units: mm

Reel Size: Ø330 mm
Reel QTY: 600 pcs per reel









REVISION HISTORY

rev.	description	date
1.0	initial release	05/30/2023

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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