

SERIES: RDS6-1011-RA | **DESCRIPTION:** ROTARY DIP SWITCH**FEATURES**

- 4, 8, 10, & 16 positions
- removable cap options
- 2.54 and 5.08 pitch

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated voltage	switching			42	Vdc
	non-switching			42	Vdc
rated current	switching			150	mA
	non-switching			200	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				

SOLDERABILITY

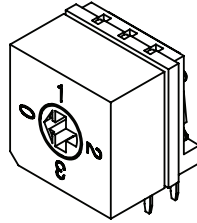
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
wave soldering	for maximum 5 seconds			260	°C

PART NUMBER KEY

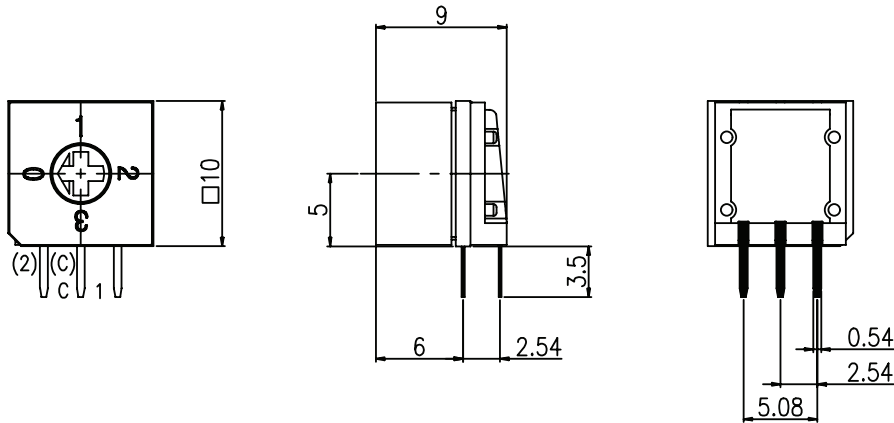
RDS6	- XXS	- 1011	- X	- RA	- XXX	- D
Base Number	No. of Positions: 4 = 4 Positions 8 = 8 Positions 10 = 10 Positions 16 = 16 Positions		Actuator Cap: "blank" = Without Cap 1 = Notched Cap 2 = Raised Slotted Cap 3 = Numbered Dial		Pitch: 254 = 2.54 mm 508 = 5.08 mm	

MECHANICAL DRAWING (4 POSITION, 2.54 MM PITCH)

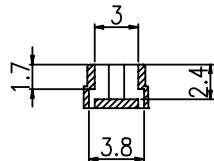
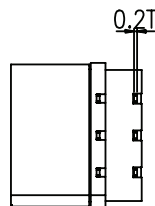
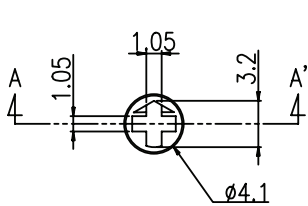
units: mm
 tolerance: ±0.3 mm
 unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au

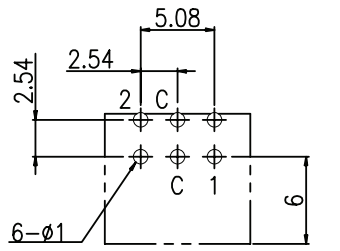


ON ●				
OFF ○	CODE			
TYPE	POS	C	1	2
4 POSITION	0	●	○	○
	1	●	●	○
	2	●	○	●
	3	●	●	●



Section A-A'

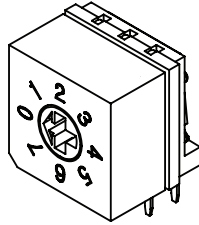
ACTUATOR



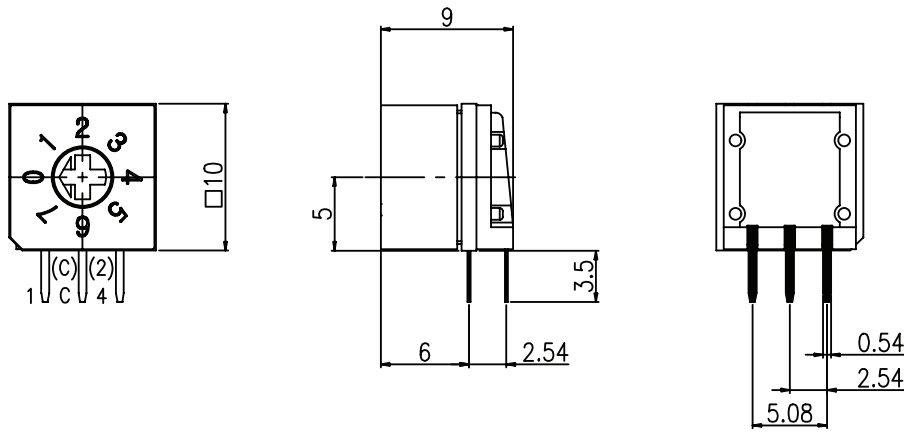
Recommended PCB Layout
 Top View

MECHANICAL DRAWING (8 POSITION, 2.54 MM PITCH)

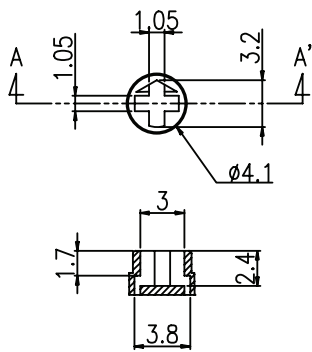
units: mm
tolerance: ±0.3 mm
unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au

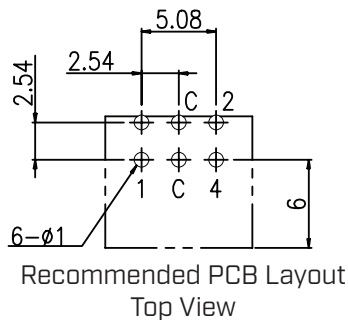


TYPE	POS	CODE			
		C	1	2	4
8 POSITION	0	●	○	○	○
	1	●	●	○	○
	2	●	○	●	○
	3	●	●	●	○
	4	●	○	○	●
	5	●	●	○	●
	6	●	○	●	●
	7	●	●	●	●



Section A-A'

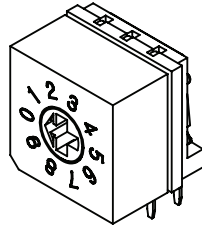
ACTUATOR



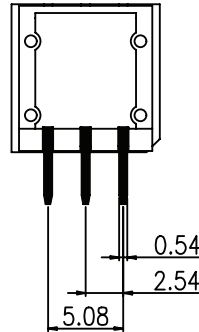
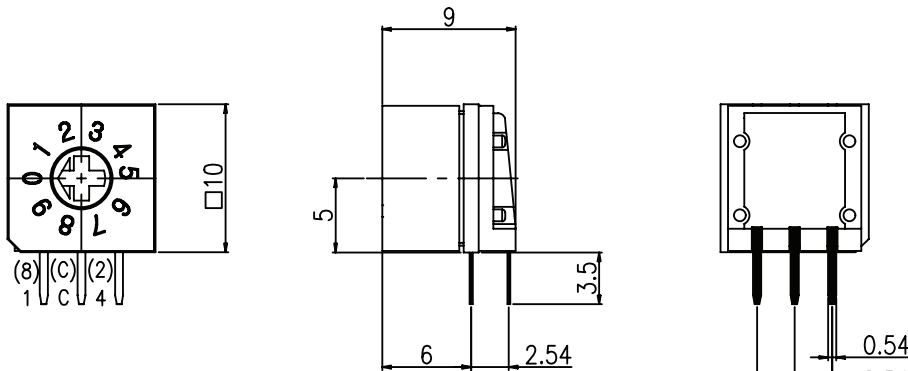
Recommended PCB Layout
Top View

MECHANICAL DRAWING (10 POSITION, 2.54 MM PITCH)

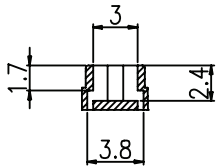
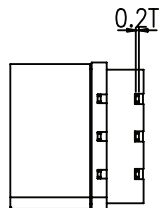
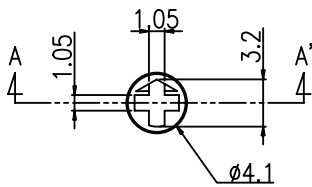
units: mm
 tolerance: ±0.3 mm
 unless otherwise specified



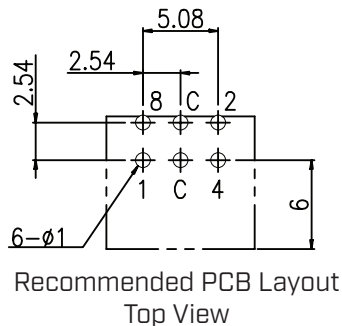
DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	PDM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au



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

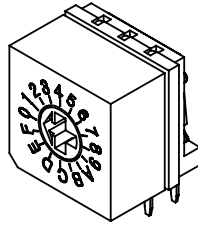


Section A-A'
 ACTUATOR

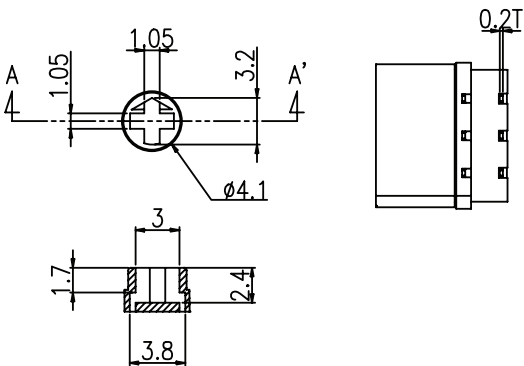
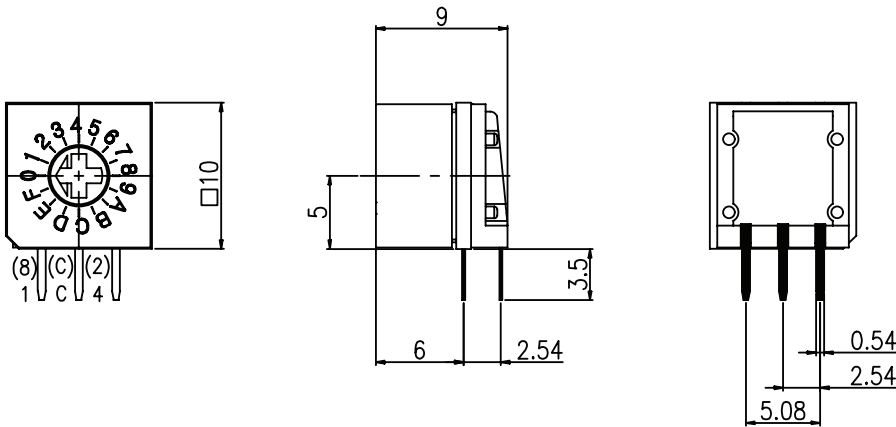


MECHANICAL DRAWING (16 POSITION, 2.54 MM PITCH)

units: mm
 tolerance: ±0.3 mm
 unless otherwise specified

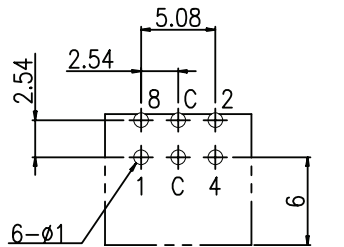


DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au



Section A-A'

ACTUATOR

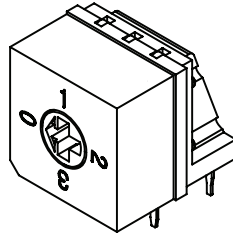


Recommended PCB Layout
 Top View

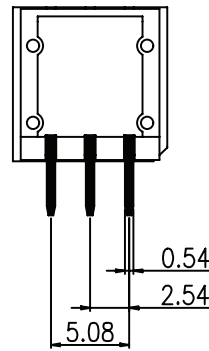
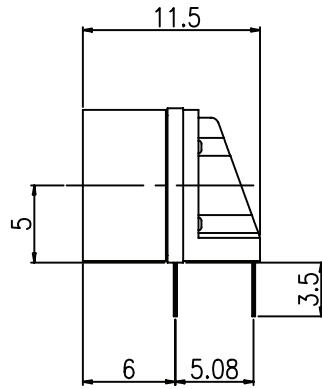
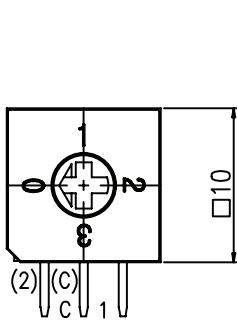
TYPE	CODE					
	POS	C	1	2	4	8
	ON ●					
OFF ○						
16 POSITION	0	●	○	○	○	○
	1	●	●	○	○	○
	2	●	○	●	○	○
	3	●	●	●	○	○
	4	●	○	○	●	○
	5	●	●	○	●	○
	6	●	○	●	●	○
	7	●	●	●	●	○
	8	●	○	○	○	●
	9	●	●	○	○	●
	A	●	○	●	○	●
	B	●	●	●	○	●
	C	●	○	○	●	●
	D	●	●	○	●	●
	E	●	○	●	●	●
	F	●	●	●	●	●

MECHANICAL DRAWING (4 POSITION, 5.08 MM PITCH)

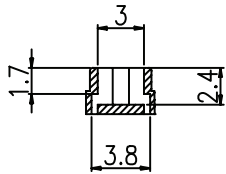
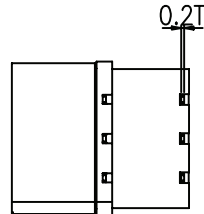
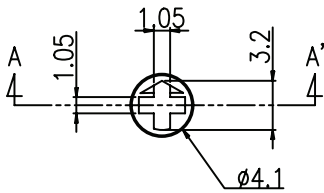
units: mm
tolerance: ±0.3 mm
unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au

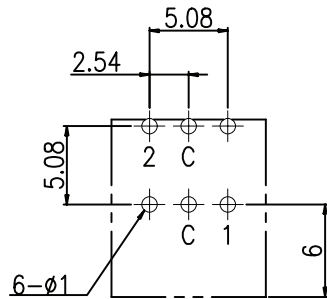


ON ●	CODE			
OFF ○				
TYPE	POS	C	1	2
4 POSITION	0	●	○	○
	1	●	●	○
	2	●	○	●
	3	●	●	●



Section A-A'

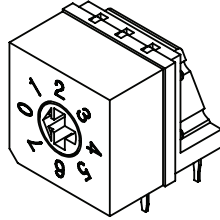
ACTUATOR



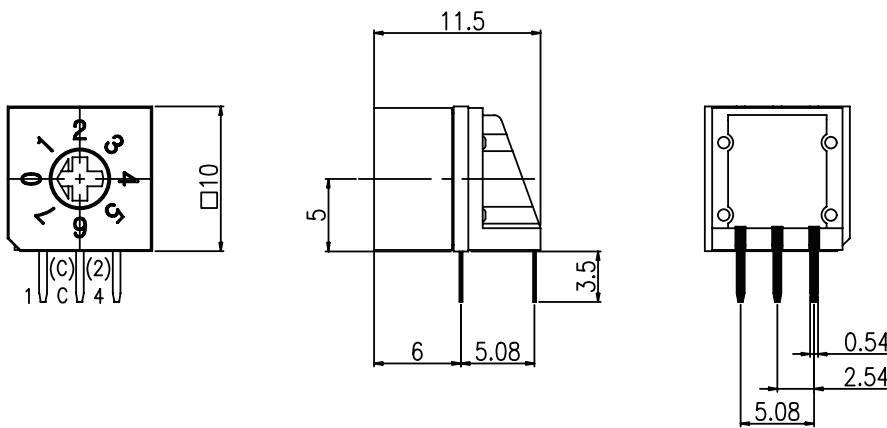
Recommended PCB Layout
Top View

MECHANICAL DRAWING (8 POSITION, 5.08 MM PITCH)

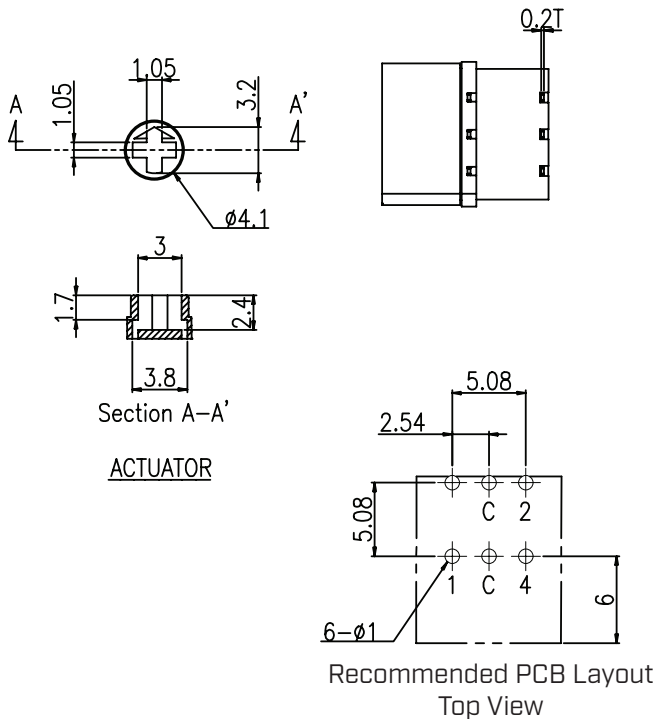
units: mm
 tolerance: ±0.3 mm
 unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au

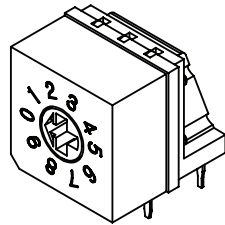


TYPE	POS	CODE			
		C	1	2	4
8 POSITION	0	●	○	○	○
	1	●	●	○	○
	2	●	○	●	○
	3	●	●	●	○
	4	●	○	○	●
	5	●	●	○	●
	6	●	○	●	●
	7	●	●	●	●

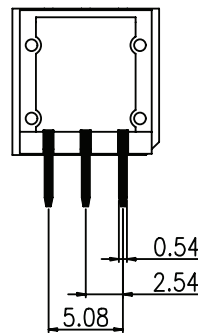
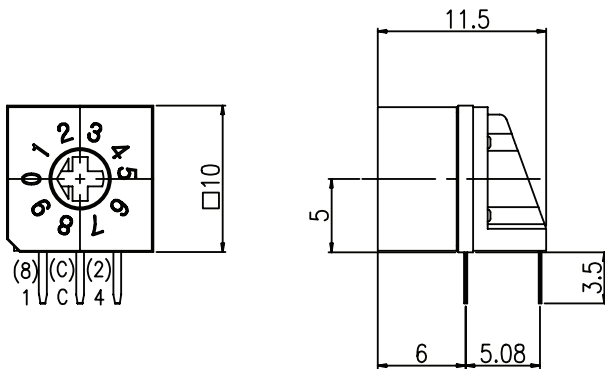


MECHANICAL DRAWING (10 POSITION, 5.08 MM PITCH)

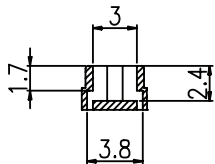
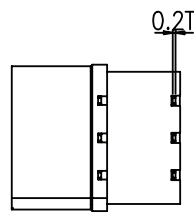
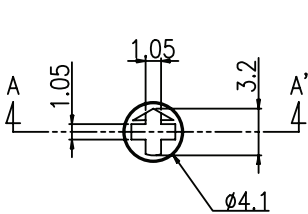
units: mm
 tolerance: ±0.3 mm
 unless otherwise specified



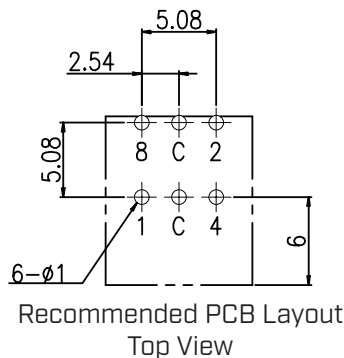
DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au



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

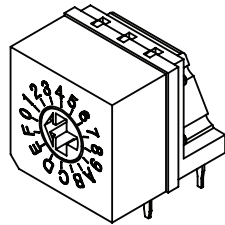


Section A-A'
 ACTUATOR

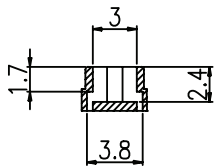
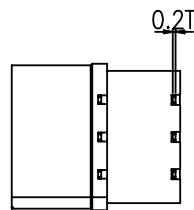
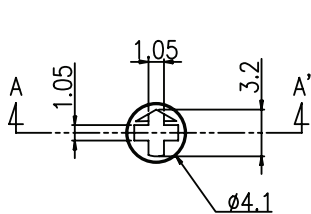
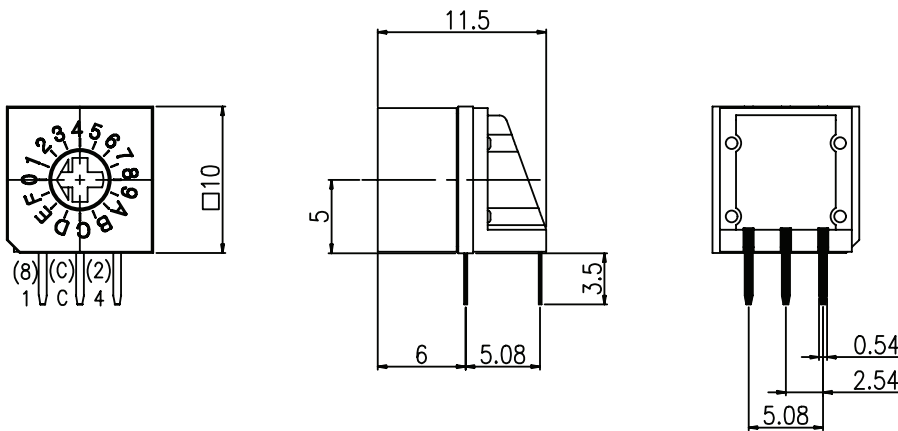


MECHANICAL DRAWING (16 POSITION, 5.08 MM PITCH)

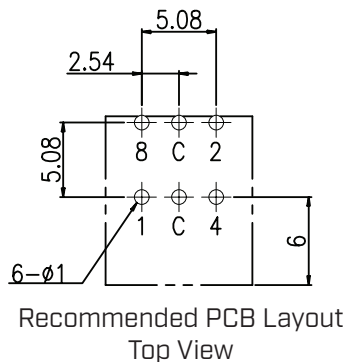
units: mm
 tolerance: ±0.3 mm
 unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	POM (UL94HB)	gray
cover	PA66 (UL94V-0)	black
base	PA66 (UL94V-0)	black
terminals	phosphorus bronze	Ni/Au



Section A-A'
 ACTUATOR

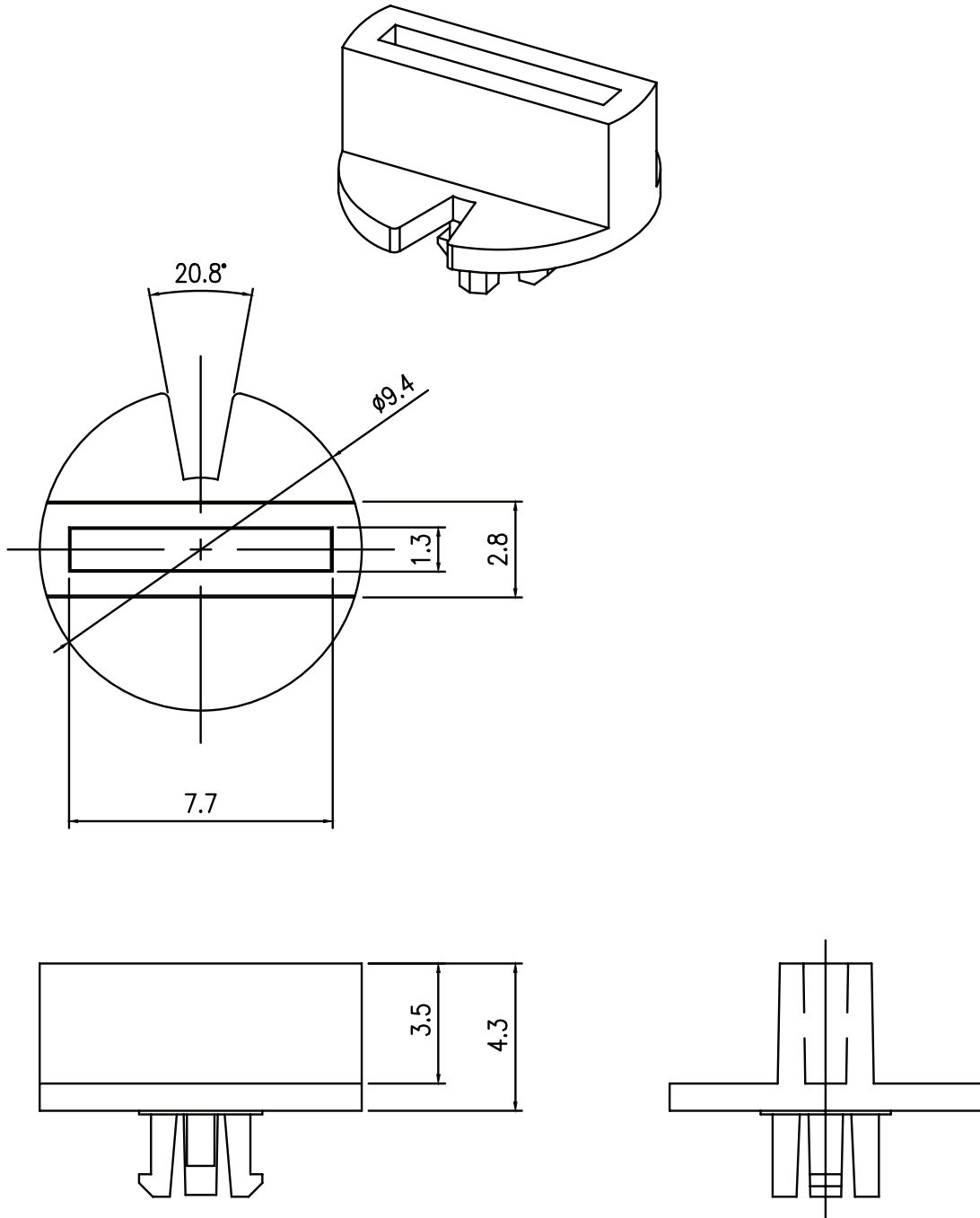


ON ●						
OFF ○	CODE					
TYPE	POS	C	1	2	4	8
16 POSITION	0	●	○	○	○	○
	1	●	●	○	○	○
	2	●	○	●	○	○
	3	●	●	●	○	○
	4	●	○	○	●	○
	5	●	●	○	●	○
	6	●	○	●	●	○
	7	●	●	●	●	○
	8	●	○	○	○	●
	9	●	●	○	○	●
	A	●	○	●	○	●
	B	●	●	●	○	●
	C	●	○	○	●	●
	D	●	●	○	●	●
E	●	○	●	●	●	
F	●	●	●	●	●	

MECHANICAL DRAWING (NOTCHED CAP)

units: mm
 tolerance: ±0.1 mm
 unless otherwise specified

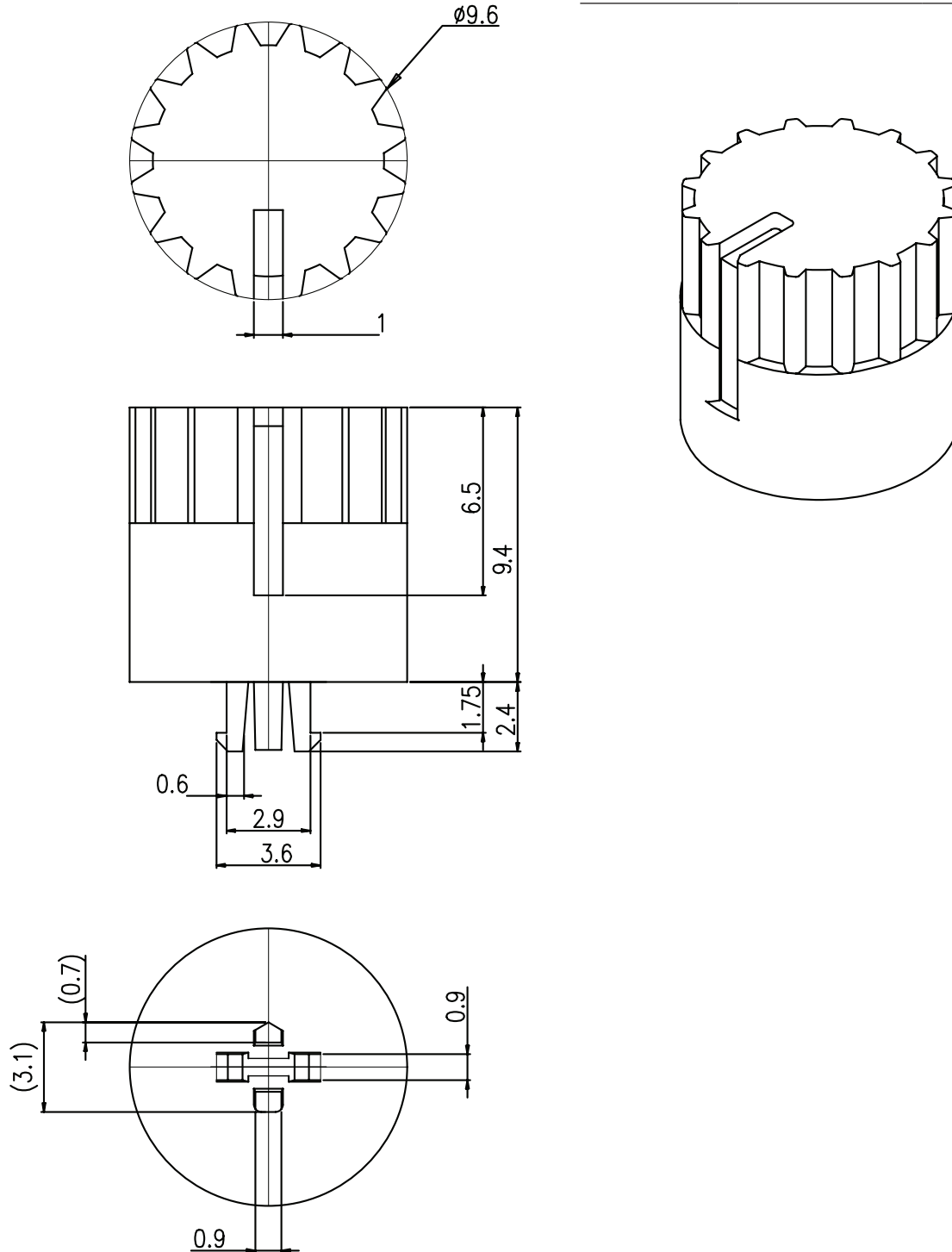
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	gray



MECHANICAL DRAWING (RAISED SLOTTED CAP)

units: mm
 tolerance: ±0.3 mm
 unless otherwise specified

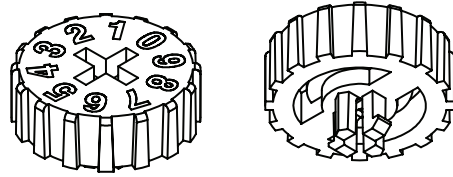
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	black



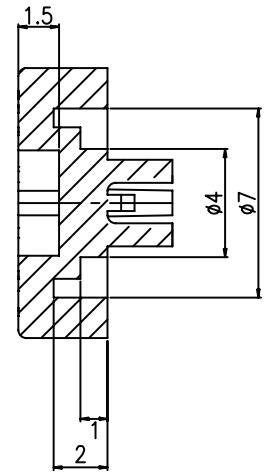
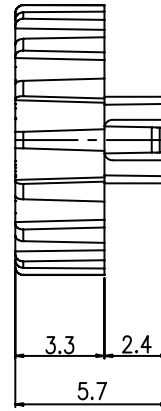
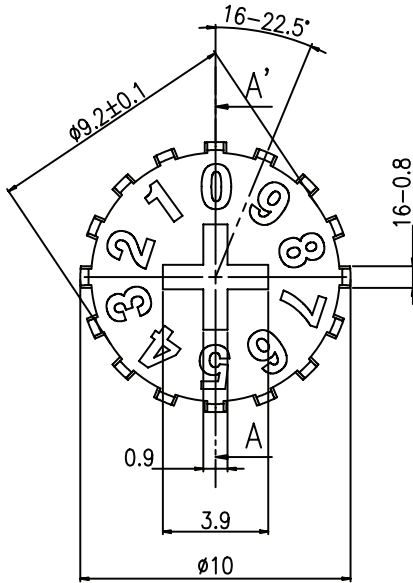
MECHANICAL DRAWING (NUMBERED DIAL)

units: mm
 tolerance: ± 0.3 mm
 unless otherwise specified

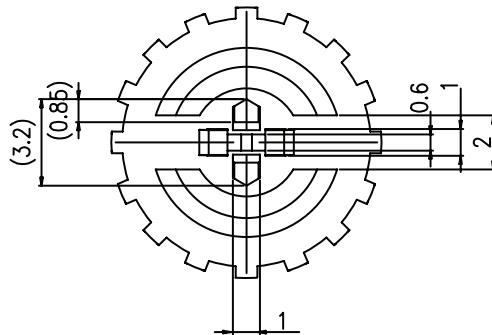
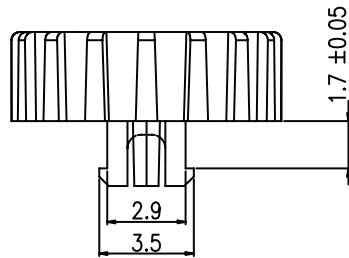
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	red with white letters



Position	Direction
04	
08	
10	
16	



SECTION A-A'



PACKAGING

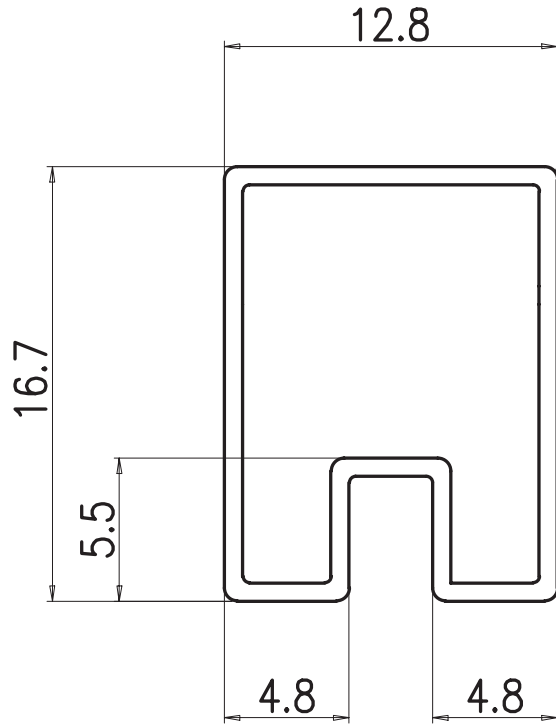
units: mm

Tube Size [2.54 mm pitch]: 16.7 x 12.8 x 540 mm

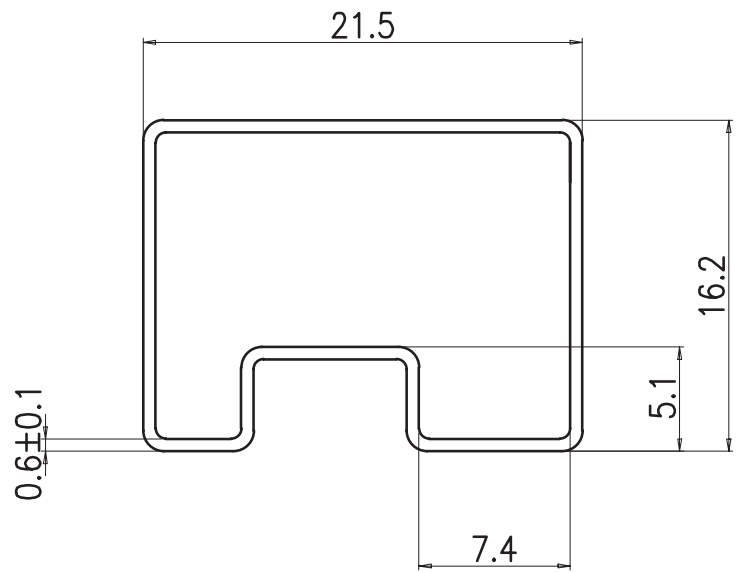
Tube Size [5.08 mm pitch]: 16.2 x 21.5 x 540 mm

Tube QTY: 50 pcs per tube

2.54 MM PITCH MODELS



5.08 MM PITCH MODELS



REVISION HISTORY

rev.	description	date
1.0	initial release	05/31/2023
1.01	CUI Devices rebranded to Same Sky	09/12/2024

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



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

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky 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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