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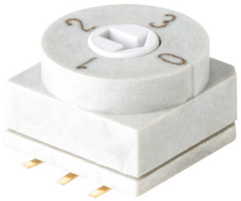
SERIES: RDS1-1065-SMT-67 | DESCRIPTION: ROTARY DIP SWITCH

FEATURES

- 4, 8, 10, & 16 positions
- surface mount
- IP67



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				
IP level	IP67				

PART NUMBER KEY

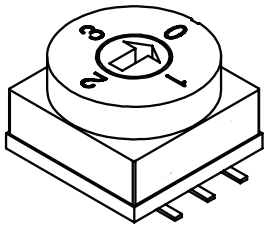
RDS1 - XXS - 1065 - SMT - TR - 67

Base Number

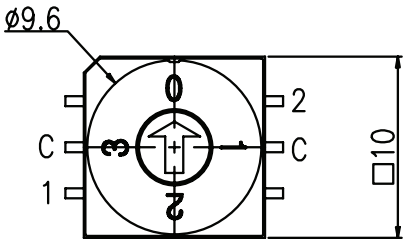
No. of Positions:
4 = 4 Positions
8 = 8 Positions
10 = 10 Positions
16 = 16 Positions

MECHANICAL DRAWING (4 POSITION)

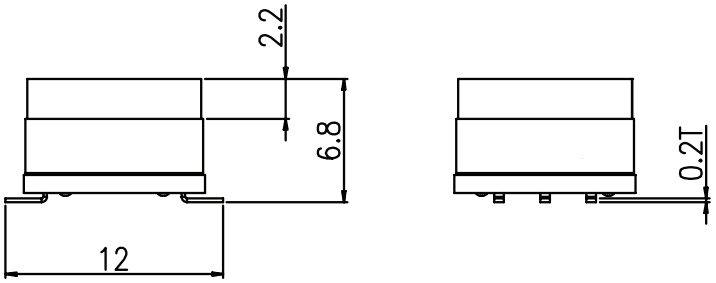
units: mm
tolerance: ±0.3 mm
unless otherwise specified

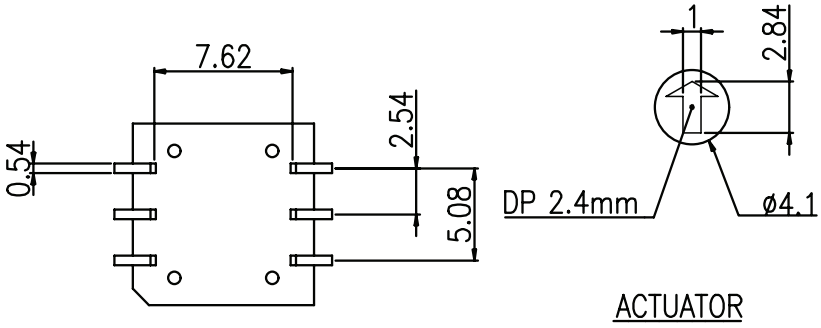


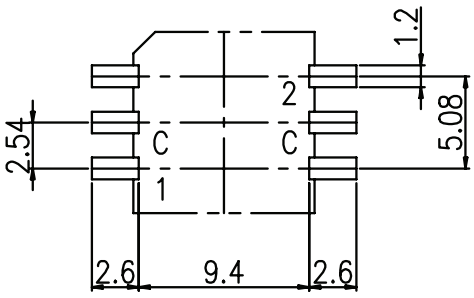
DESCRIPTION	MATERIAL	PLATING/COLOR
actuator	PA66 (UL94V-0)	white
cover	LCP (UL94V-0)	gray
base	LCP (UL94V-0)	gray
terminals	phosphorus bronze	Ni/Au



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



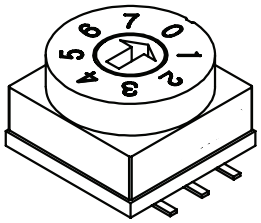




Recommended PCB Layout
Top View

MECHANICAL DRAWING (8 POSITION)

units: mm
tolerance: ±0.3 mm
unless otherwise specified



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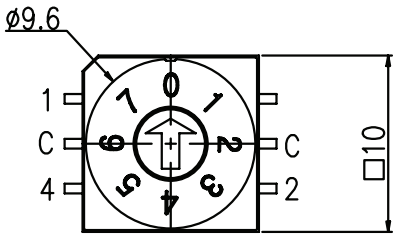
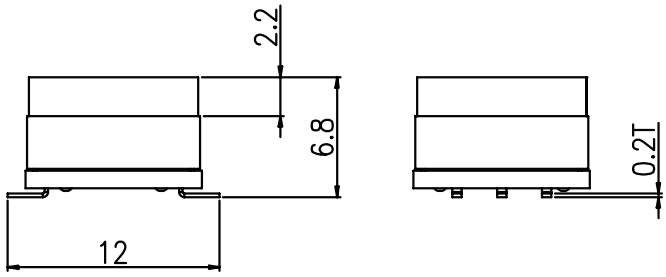
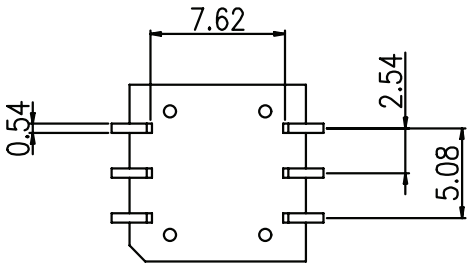
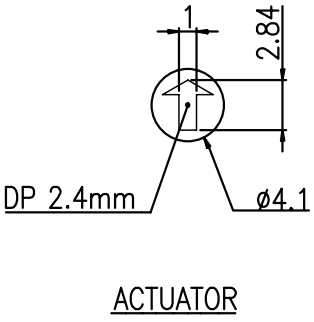
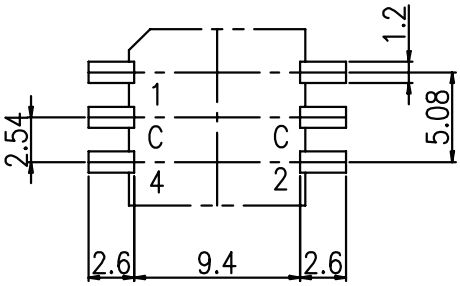




ON ●					
OFF ○		CODE			
TYPE	POS	C	1	2	4
8 POSITION	0	●	○	○	○
	1	●	●	○	○
	2	●	○	●	○
	3	●	●	●	○
	4	●	○	○	●
	5	●	●	○	●
	6	●	○	●	●
	7	●	●	●	●



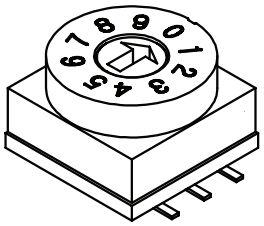




Recommended PCB Layout
Top View

MECHANICAL DRAWING (10 POSITION)

units: mm
tolerance: ±0.3 mm
unless otherwise specified



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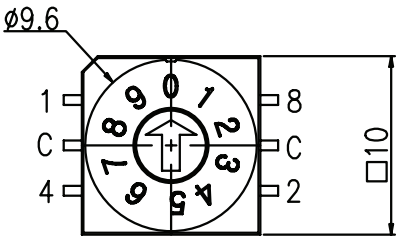
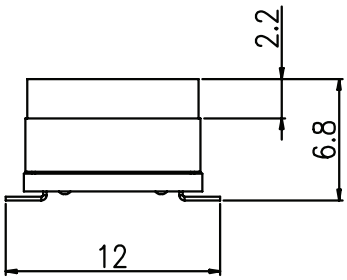
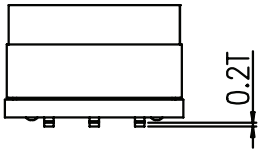
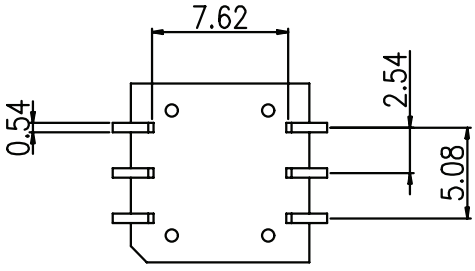
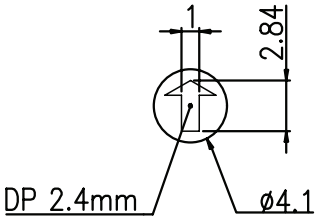




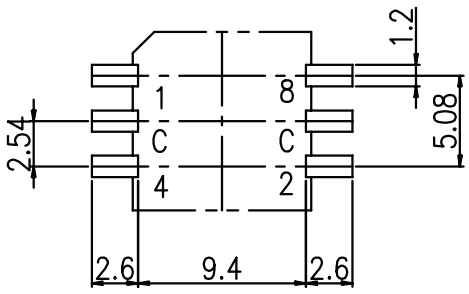


ON ●						
OFF ○		CODE				
TYPE	POS	C	1	2	4	8
10 POSITION	0	●	○	○	○	○
	1	●	●	○	○	○
	2	●	○	●	○	○
	3	●	●	●	○	○
	4	●	○	○	●	○
	5	●	●	○	●	○
	6	●	○	●	●	○
	7	●	●	●	●	○
	8	●	○	○	○	●
	9	●	●	○	○	●





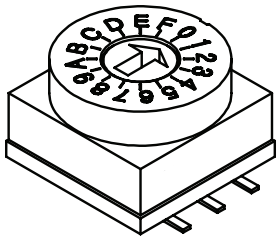
ACTUATOR



Recommended PCB Layout
Top View

MECHANICAL DRAWING (16 POSITION)

units: mm
tolerance: ±0.3 mm
unless otherwise specified



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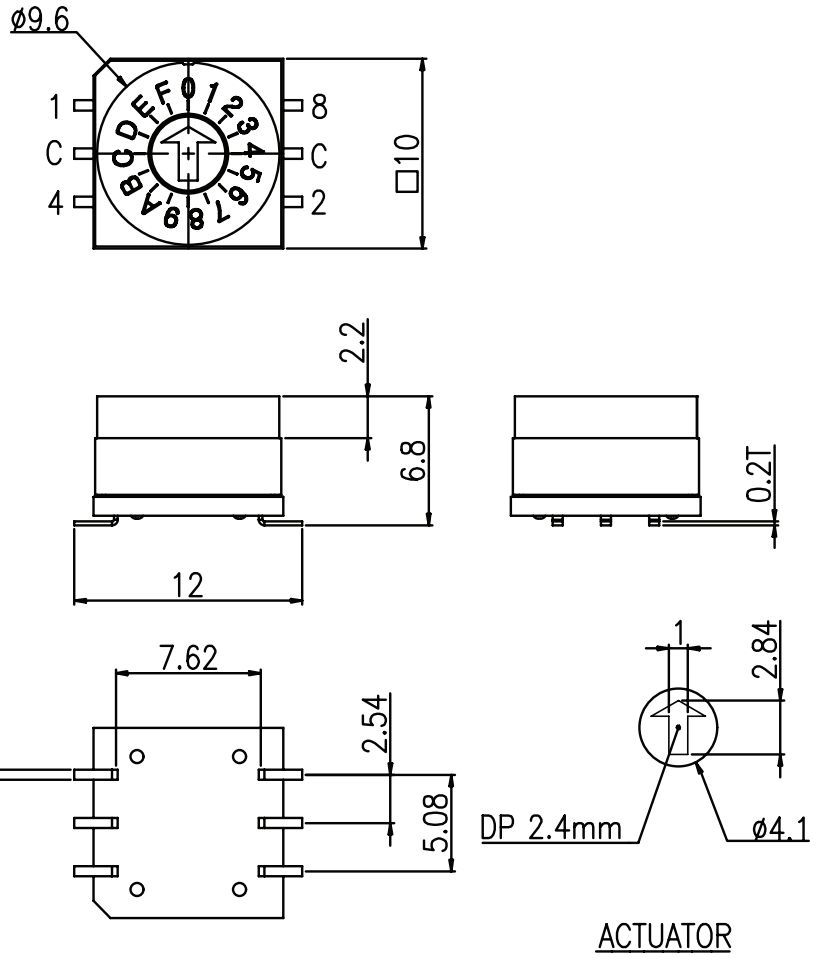
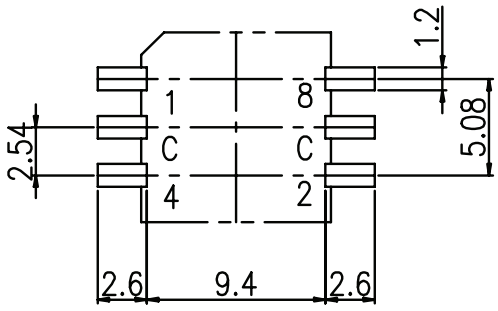


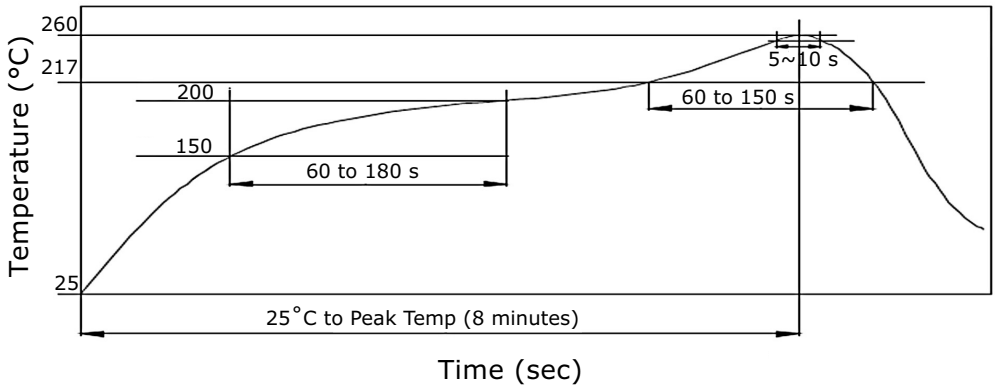
ON ●						
OFF ○		CODE				
TYPE	POS	C	1	2	4	8
16 POSITION	0	●	○	○	○	○
	1	●	●	○	○	○
	2	●	○	●	○	○
	3	●	●	●	○	○
	4	●	○	○	●	○
	5	●	●	○	●	○
	6	●	○	●	●	○
	7	●	●	●	●	○
	8	●	○	○	○	●
	9	●	●	○	○	●
	A	●	○	●	○	●
	B	●	●	●	○	●
	C	●	○	○	●	●
	D	●	●	○	●	●
	E	●	○	●	●	●
	F	●	●	●	●	●



Recommended PCB Layout
Top View

SOLDERABILITY

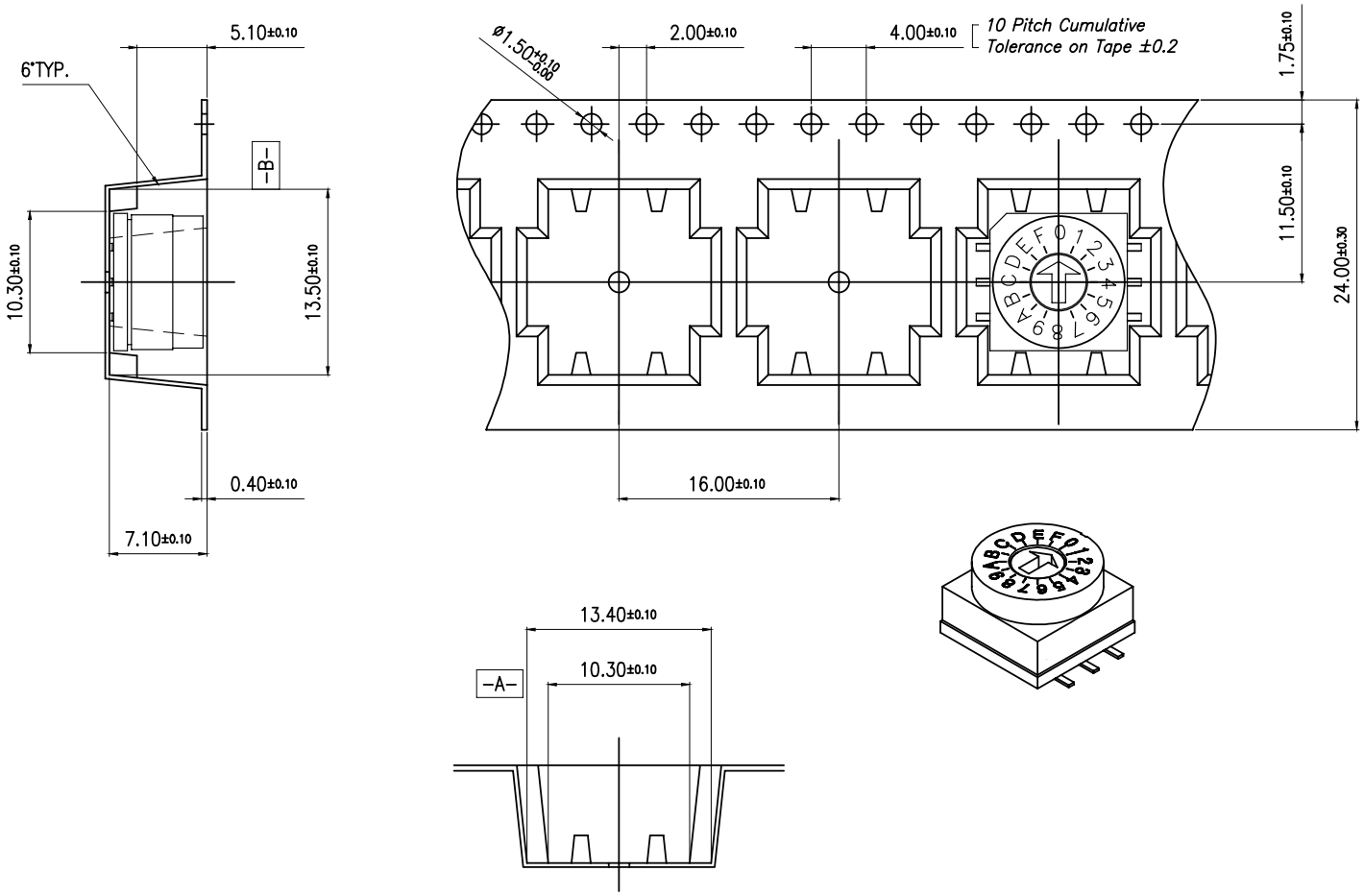
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds			350	°C
reflow soldering				260	°C



PACKAGING

units: mm

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



REVISION HISTORY

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

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.