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SERIES: RDS-1045-SMT | DESCRIPTION: ROTARY DIP SWITCH

FEATURES

- 10 and 16 positions
- flat actuator
- gold plated terminals
- surface mount
- tube or tape and reel packaging



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage	switching non-switching			24 50	Vdc Vdc
rated current	switching non-switching			25 100	mA mA
withstanding voltage	for 1 minute		250		Vac
contact resistance	initial after life test			50 100	mΩ mΩ
insulation resistance	at 250 Vdc	100			MΩ
operating torque				500	gf*cm
dial travel	continuous rotation		360		degrees
operating temperature		-40		85	°C
storage temperature		-40		85	°C
life		10,000			steps
flammability rating	UL94V-0				
RoHS	yes				

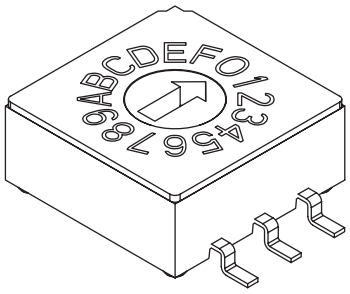
PART NUMBER KEY

RDS - XXS - 1045 - SMT - XX

- RDS: Base Number
- XXS: No. of Positions:
  10 =10 Positions
  16 =16 Positions
- XX: Packaging:
  “blank” = Tube
  TR = Tape and Reel

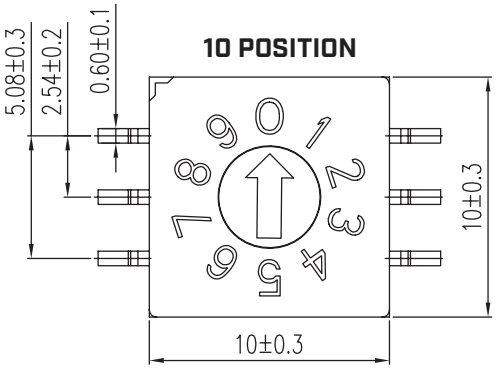
MECHANICAL DRAWING

units: mm
tolerance:
X≤0.5: ±0.25 mm
0.5<X≤3.0: ±0.15 mm
3.0<X≤6.0: ±0.20 mm
6.0<X≤30.0: ±0.25 mm
30.0<X≤120.0: ±0.30 mm
120.0<X≤400.0: ±0.50 mm
X>400.0: ±0.80 mm
unless otherwise noted

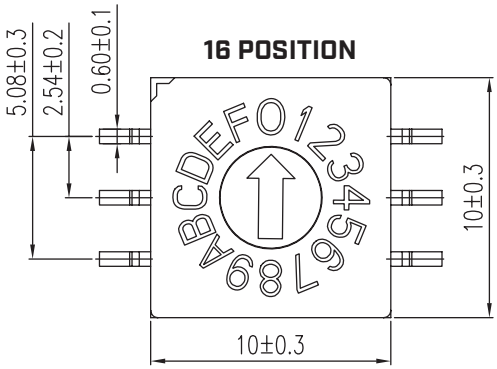


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	dial	PA9T (UL94V-0)	gray
2	housing	PA9T (UL94V-0)	black
3	base	PA9T (UL94V-0)	black
4	terminals	copper alloy	gold

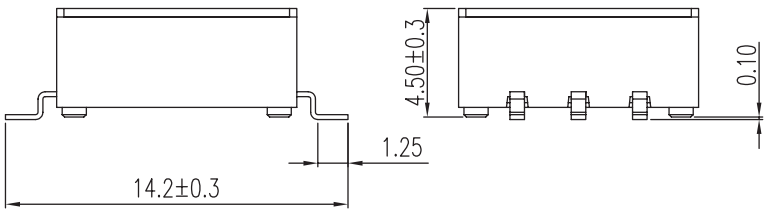
10 POSITION

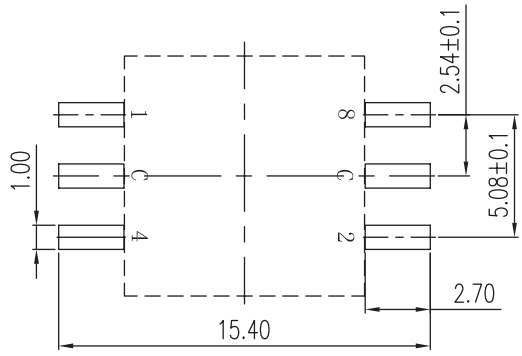


16 POSITION



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



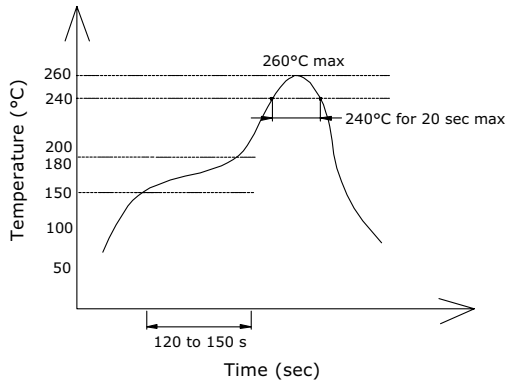


Recommended PCB Layout
Top View

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds	315	320	325	°C
reflow soldering[1]	240~260 °C (20 seconds max)			260	°C

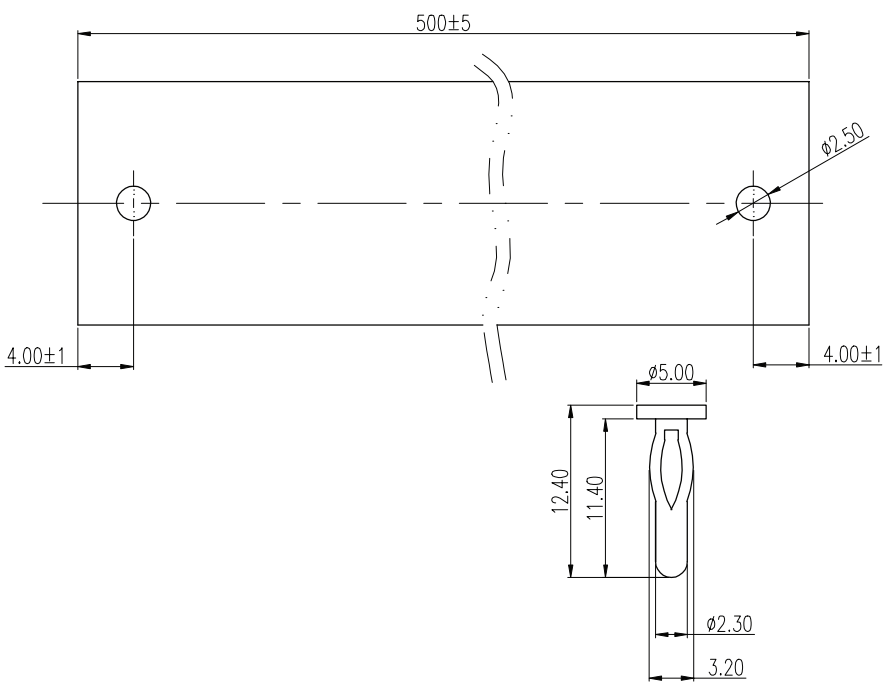
Notes: 1. It is recommended to reflow solder within 6 months.

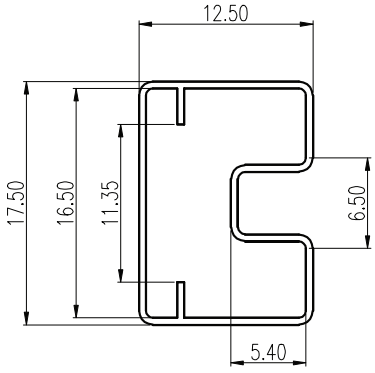


PACKAGING (TUBE)

units: mm

Tube Size: 17.50 x 12.50 x 500 mm
Tube QTY: 47 pcs

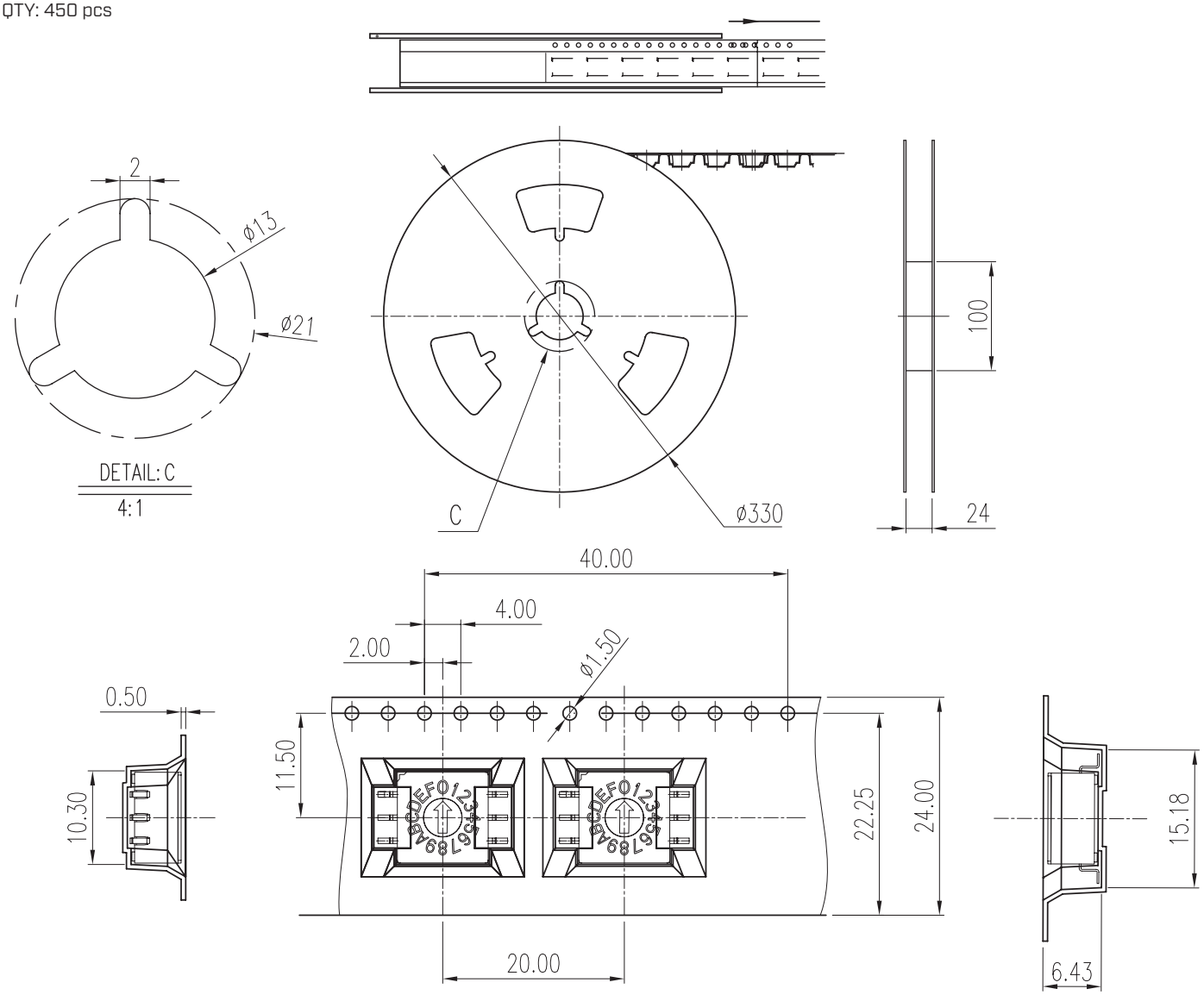




PACKAGING (TAPE & REEL)

units: mm

Reel Size: Ø330 mm
Reel QTY: 450 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	05/21/2020
1.01	logo, datasheet style update	08/05/2022
1.0	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.

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.