CUI DEVICES

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				

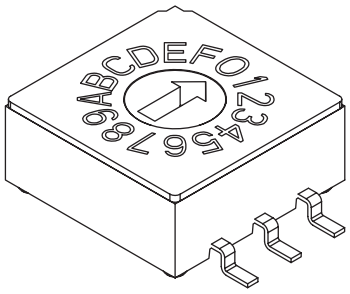
PART NUMBER KEY

RDS - XXS - 1045 - SMT - XX

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

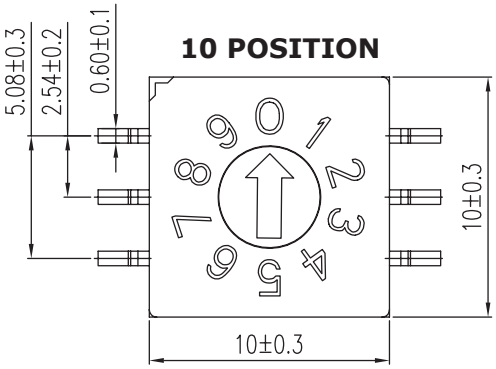
MECHANICAL DRAWING

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

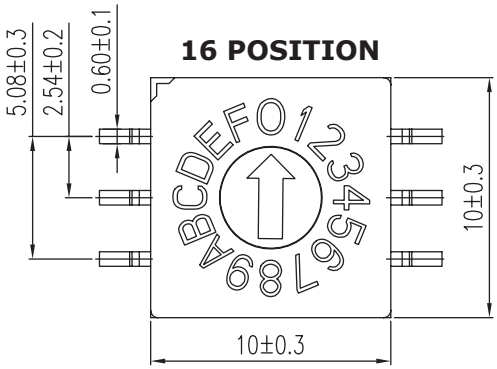


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	dial	PA9T (UL94V-0)	gray
2	housing	PA9T (UL94V-0)	black
3	base	PA9T (UL94V-0)	black
4	terminals	copper alloy	gold

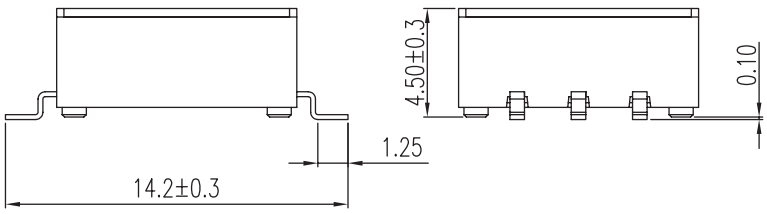
10 POSITION

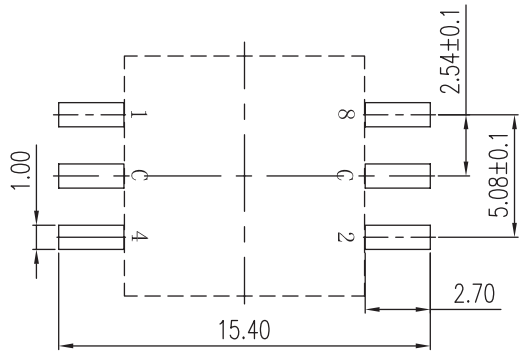


16 POSITION



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	○	○	○	○



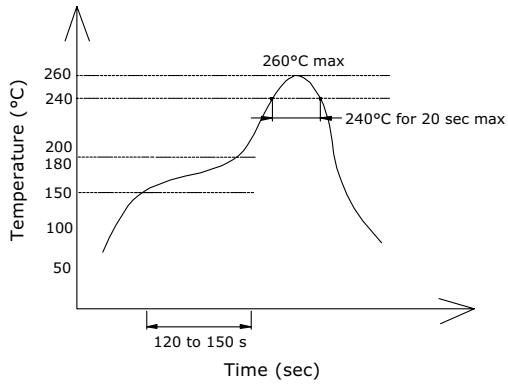


Recommended PCB Layout
Top View

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

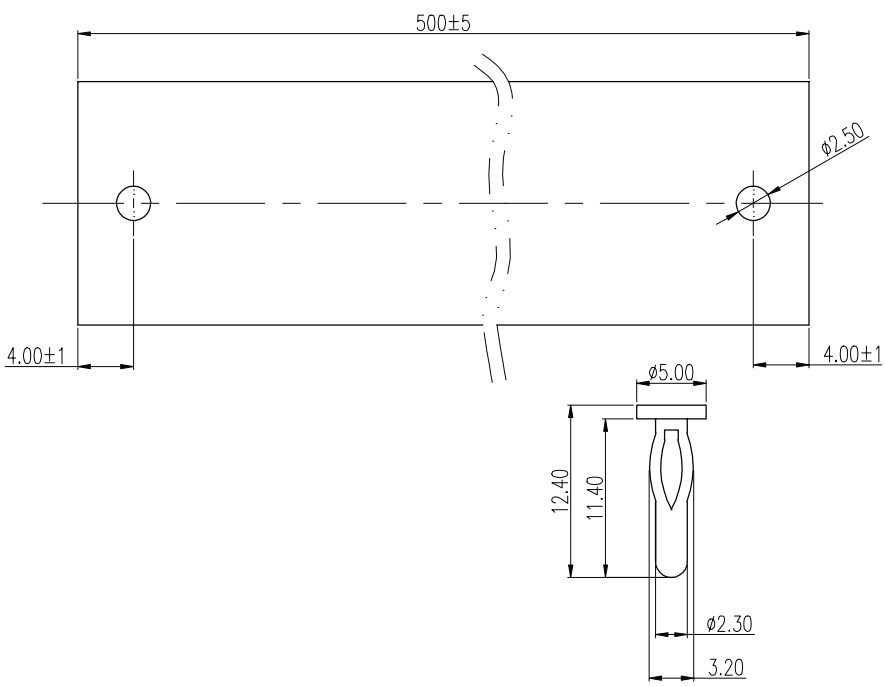
Notes: 1. It is recommended to reflow solder within 6 months.

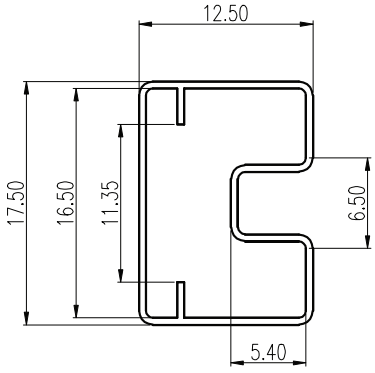


PACKAGING (TUBE)

units: mm

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

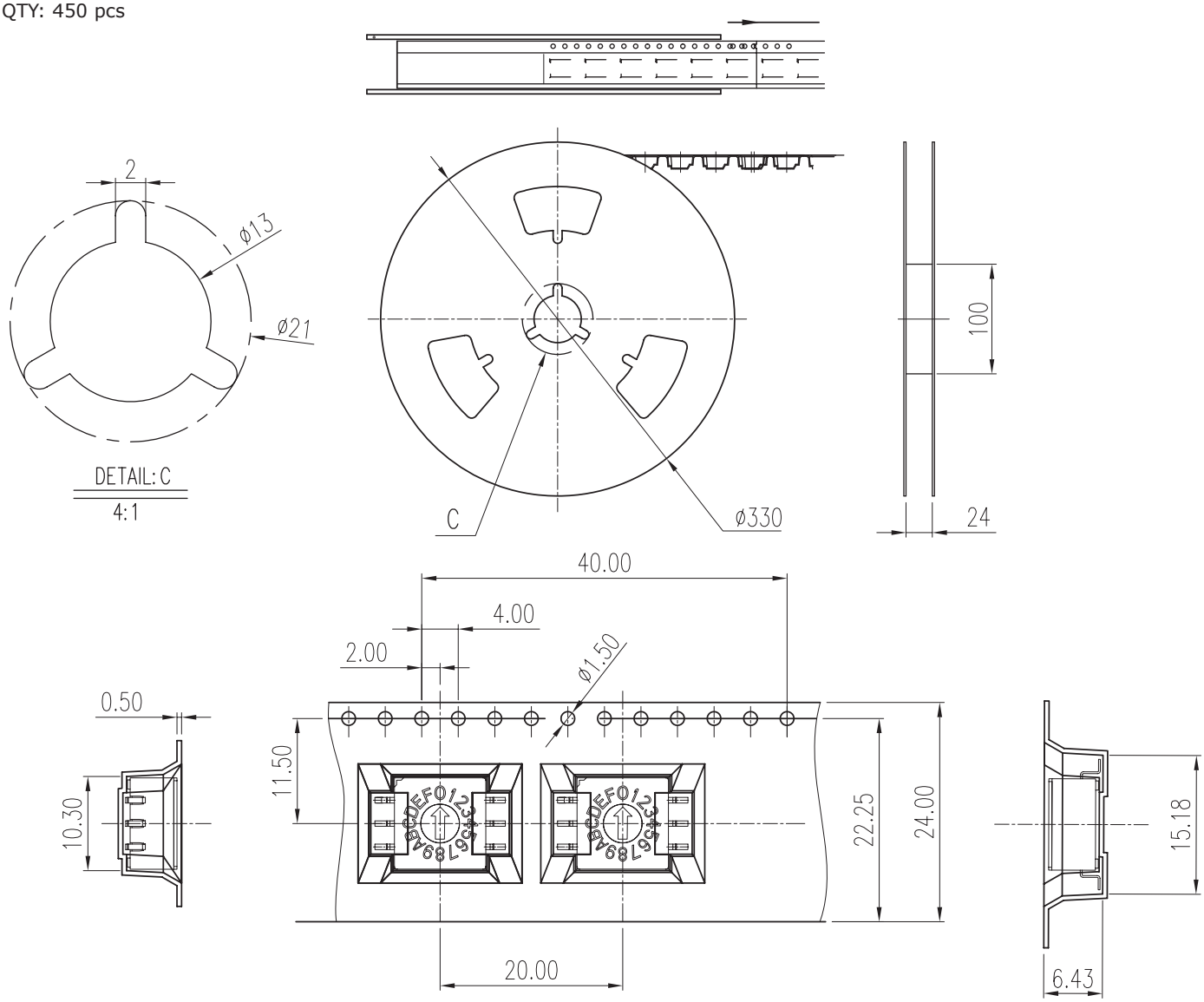




PACKAGING (TAPE & REEL)

units: mm

Reel Size: Ø330 mm
Reel QTY: 450 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	05/21/2020

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

CUI DEVICES

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