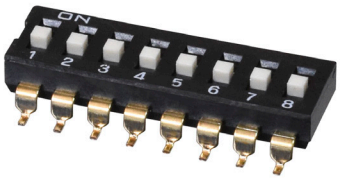
CUI DEVICES

SERIES: DS04-254-SMT | DESCRIPTION: DIP SWITCH

FEATURES

- 2.54 mm pitch
- 1~12 pole options
- raised or flat actuator option
- surface mount
- tube or tape & reel packaging



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage (per pole)	switching non-switching			24 50	Vdc Vdc
rated current (per pole)	switching non-switching			25 100	mA mA
withstanding voltage	for 1 minute		500		Vac
contact resistance	initial after life test			50 100	mΩ mΩ
insulation resistance	at 500 Vdc	100			MΩ
operating force				1000	g
switch travel				0.9	mm
operating temperature		-40		85	°C
storage temperature		-40		85	°C
life		2000			cycles
flammability rating	UL94V-0				
RoHS	yes				

PART NUMBER KEY

DS04 - 254 - X - XX BK - SMT - XX

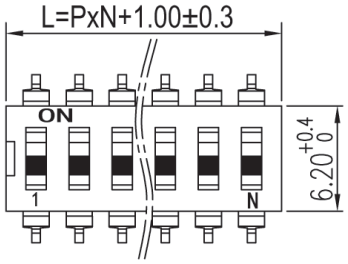
- Base Number
- Actuator: 1 = Raised, 2 = Flat
- No. of Poles: 01, 02, 03, 04, 05, 06, 07, 08, 10, 12
- Packaging: "blank" = Tube, TR[1] = Tape and Reel

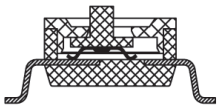
Notes: 1. Tape and Reel packaging only available on flat actuator options.

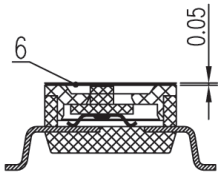
MECHANICAL DRAWING

units: mm
tolerance:
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

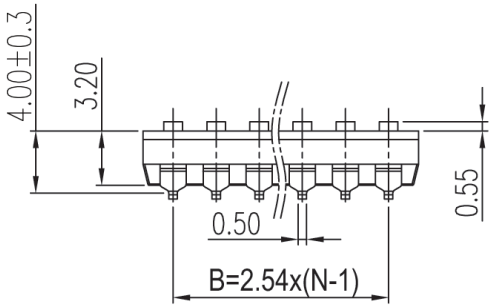
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	housing	PBT (UL94V-0)	black
2	actuator	PBT (UL94V-0)	white
3	contact	copper alloy	gold
4	pins 1,2	copper alloy	gold
5	base	PBT (UL94V-0)	black
6	tape	polyimide	

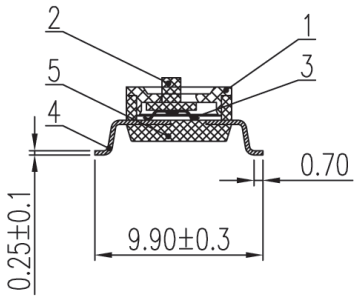



Raised Actuator



Flat Actuator

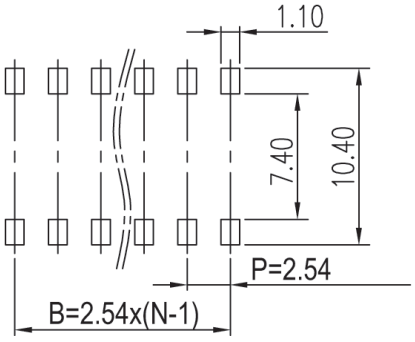




SCHEMATIC



N POS AVAIL



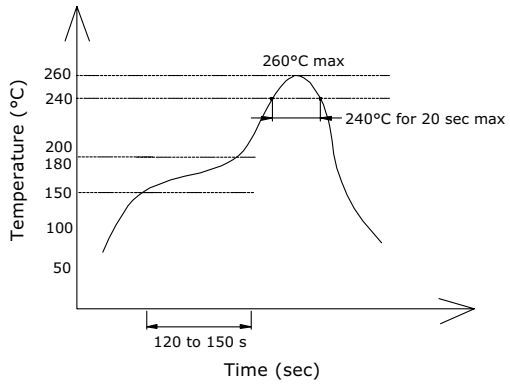
Recommended PCB Layout
Top View

This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles.										
N	01	02	03	04	05	06	07	08	10	12
L	3.54	6.08	8.62	11.16	13.70	16.24	18.78	21.32	26.40	31.48
B	--	2.54	5.08	7.62	10.16	12.70	15.24	17.78	22.86	27.94

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering[2]	for maximum 3 seconds	315	320	325	°C
reflow soldering[2]	240~260 °C (20 seconds max)			260	°C

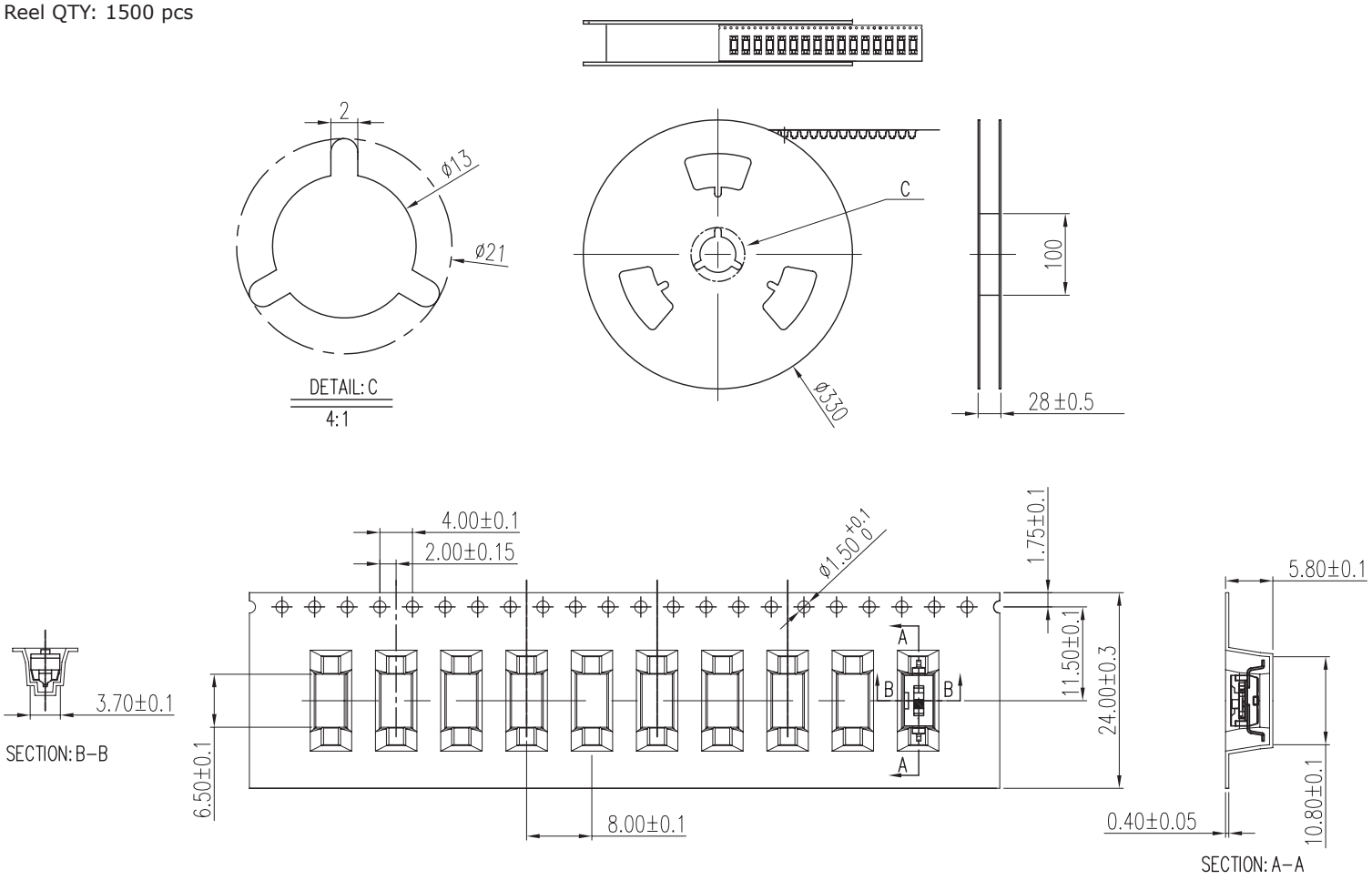
Notes: 2. Keep in "off" position during soldering.



PACKAGING (TAPE & REEL, 1 POLE MODELS)

units: mm

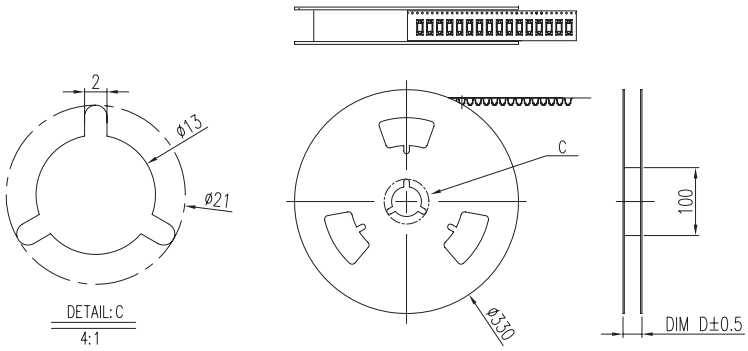
Reel Size: Ø330 mm
Reel QTY: 1500 pcs



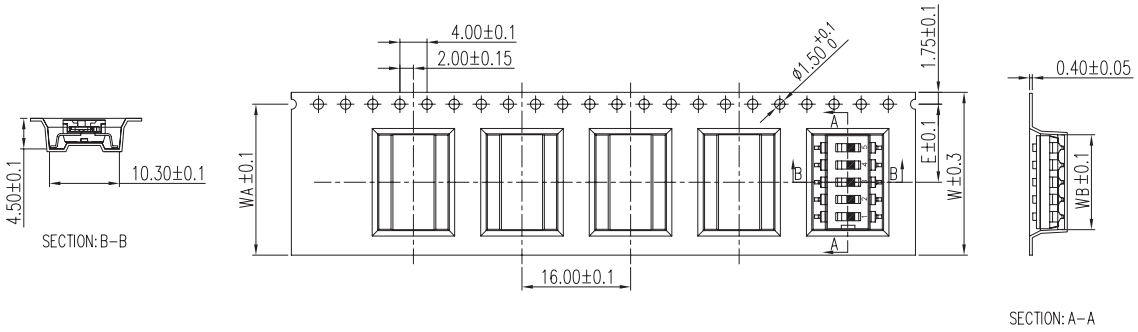
PACKAGING (TAPE & REEL, 2~12 POLE MODELS)

units: mm

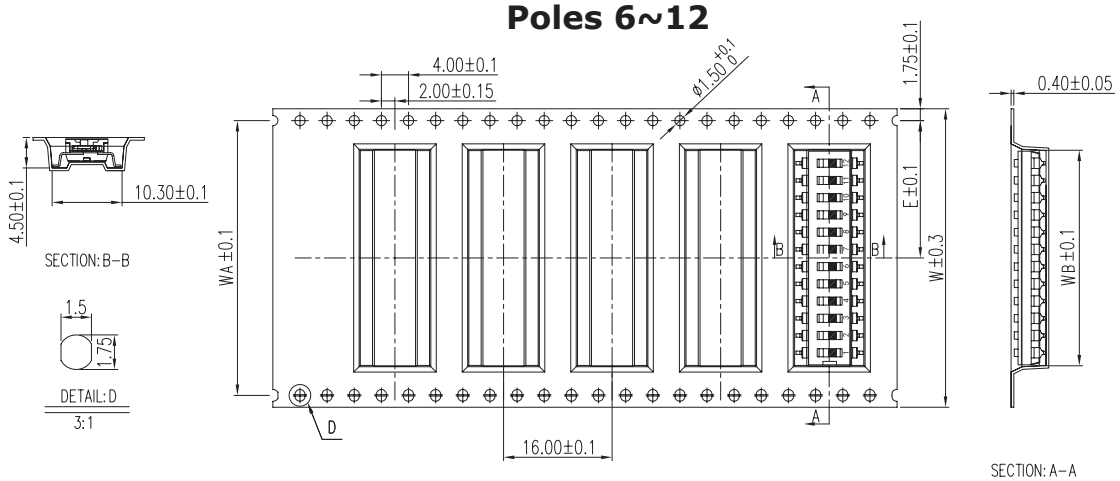
Reel Size: Ø330 mm



Poles 2~5



Poles 6~12



Tape Dimensions						
#Poles	W (mm)	WA (mm)	WB (mm)	E (mm)	D (mm)	QTY
2	16.00	14.55	6.26	7.50	20	800
3	16.00	14.55	8.92	7.50	20	800
4	24.00	22.25	11.46	11.50	28	800
5	24.00	22.25	14.00	11.50	28	800
6	32.00	28.50	16.54	14.20	36	800
7	32.00	28.50	19.08	14.20	36	800
8	32.00	28.50	21.62	14.20	36	800
10	44.00	40.50	26.70	20.25	48	800
12	44.00	40.50	31.78	20.25	48	800

REVISION HISTORY

rev.	description	date
1.0	initial release	12/02/2019

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

CUI DEVICES

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

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