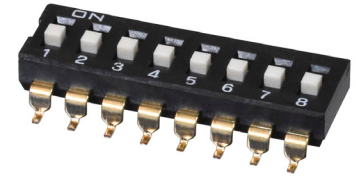


SERIES: DS04-254-SMT | **DESCRIPTION:** DIP SWITCH**FEATURES**

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

**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 07 02 08 03 10 04 12 05 06	Packaging: "blank" = Tube TR¹ = Tape and Reel

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

MECHANICAL DRAWING

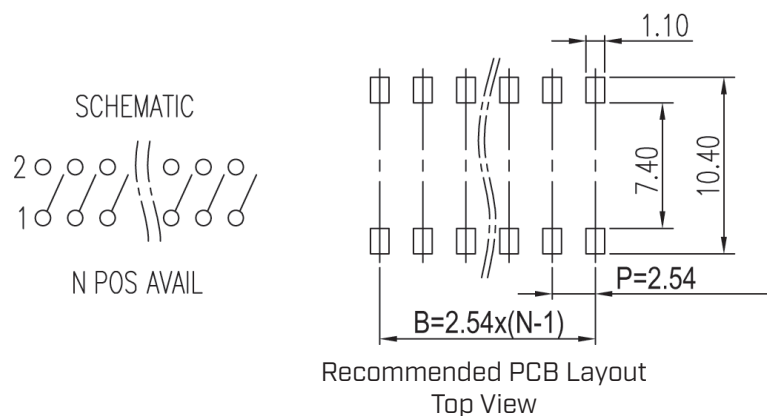
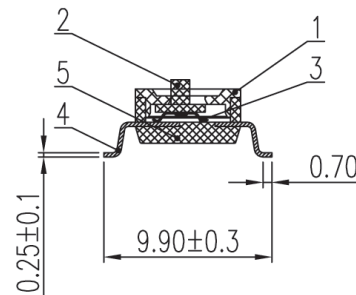
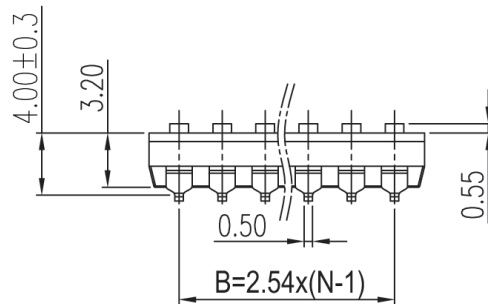
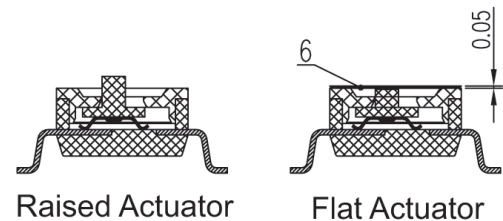
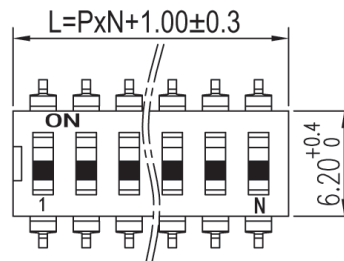
units: mm

tolerance:

 $0.5 < X \leq 3.0: \pm 0.15 \text{ mm}$ $3.0 < X \leq 6.0: \pm 0.20 \text{ mm}$ $6.0 < X \leq 30.0: \pm 0.25 \text{ mm}$ $30.0 < X \leq 120.0: \pm 0.30 \text{ mm}$ $120.0 < X \leq 400.0: \pm 0.50 \text{ mm}$ $X > 400.0: \pm 0.80 \text{ mm}$

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	

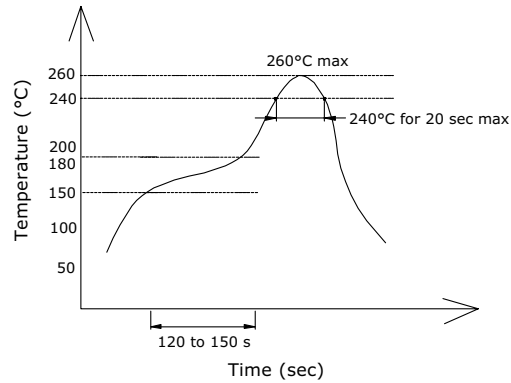


This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles.										
N	01	02	03	04	05	06	07	08	10	12
L	3.54	6.08	8.62	11.16	13.70	16.24	18.78	21.32	26.40	31.48
B	--	2.54	5.08	7.62	10.16	12.70	15.24	17.78	22.86	27.94

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.

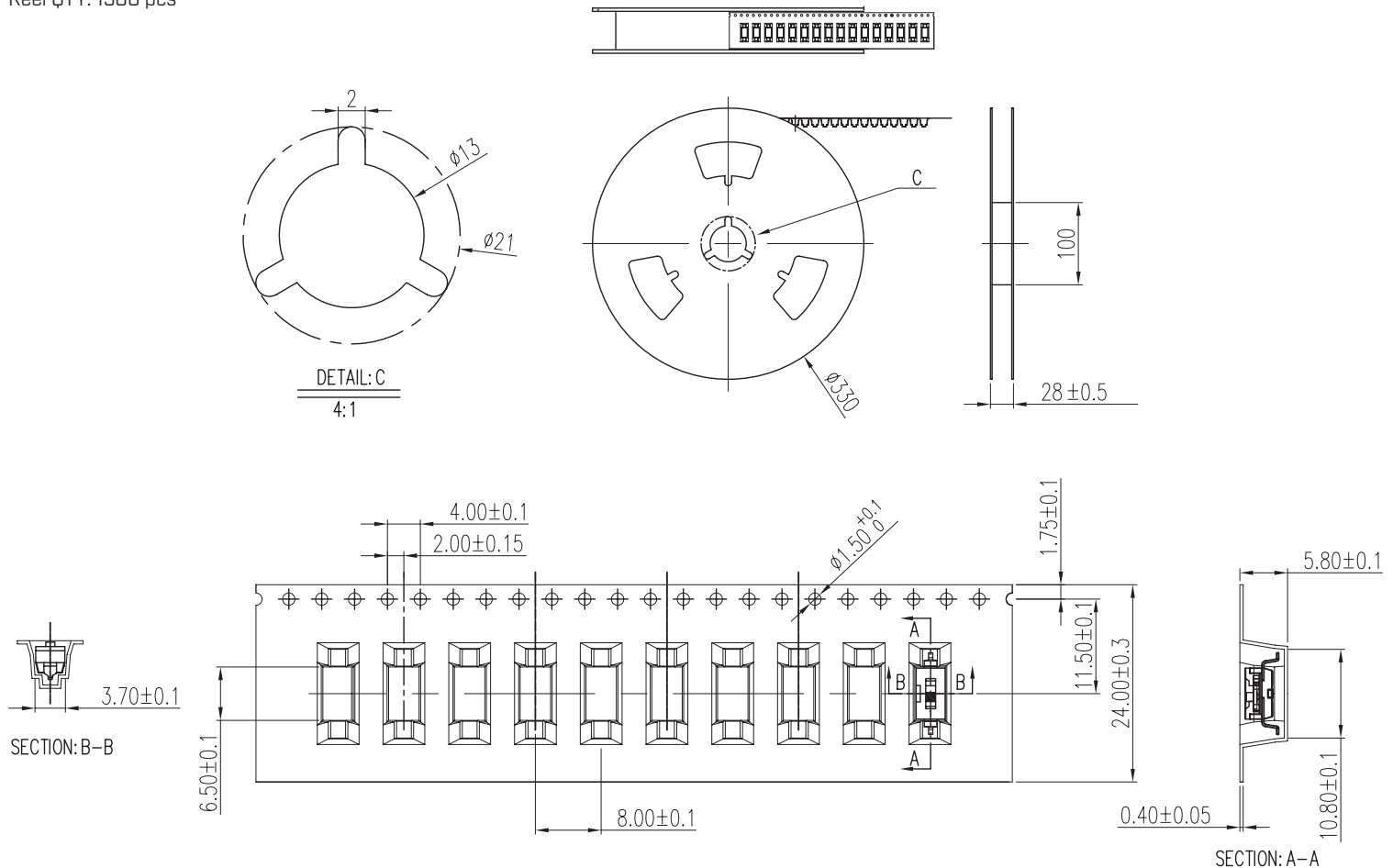


PACKAGING (TAPE & REEL, 1 POLE MODELS)

units: mm

Reel Size: Ø330 mm

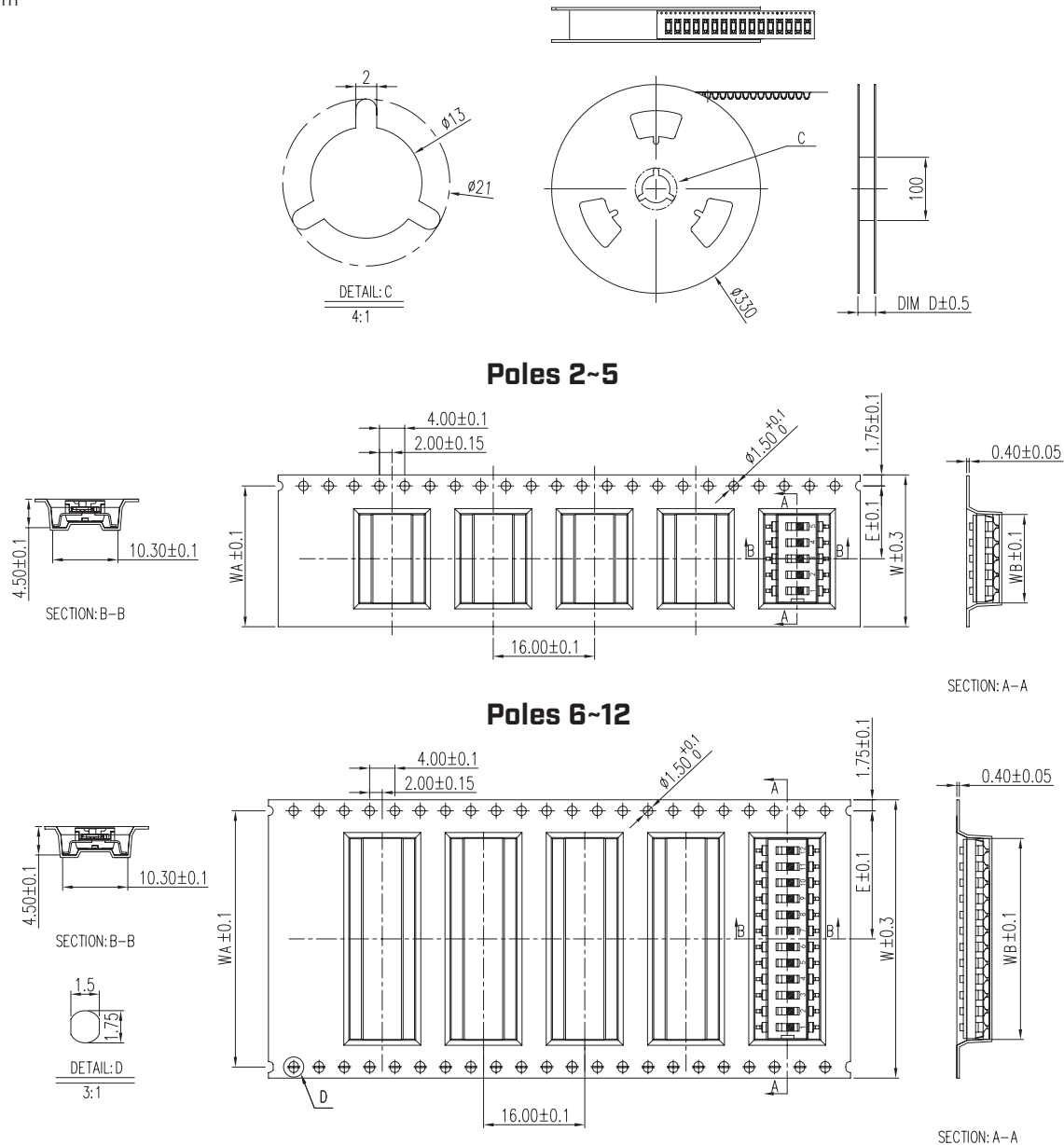
Reel QTY: 1500 pcs



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

units: mm

Reel Size: Ø330 mm

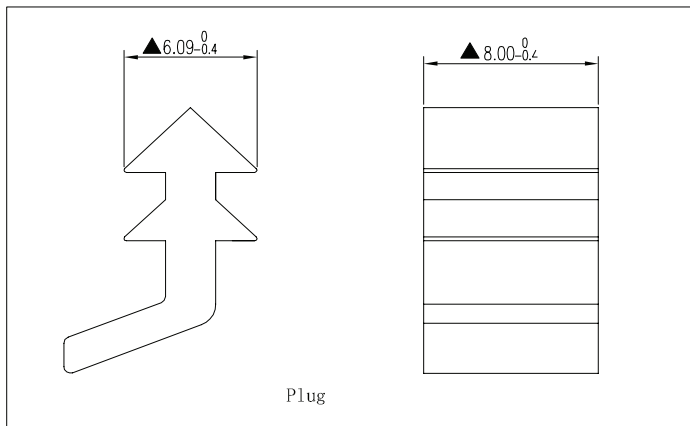
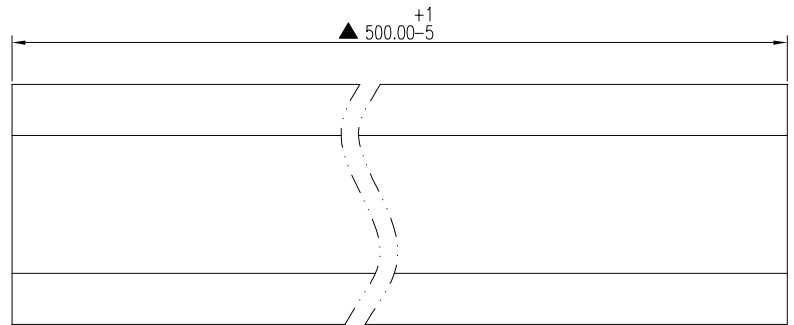
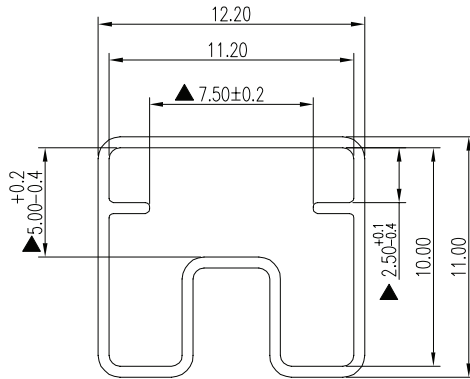


Tape Dimensions						
#Poles	W [mm]	WA [mm]	WB [mm]	E [mm]	D [mm]	QTY
2	16.00	14.55	6.26	7.50	20	800
3	16.00	14.55	8.92	7.50	20	800
4	24.00	22.25	11.46	11.50	28	800
5	24.00	22.25	14.00	11.50	28	800
6	32.00	28.50	16.54	14.20	36	800
7	32.00	28.50	19.08	14.20	36	800
8	44.00	40.50	21.62	20.25	48	800
10	44.00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

PACKAGING (TUBE)

units: mm

Tube Size: 12.20 x 11.00 x 500 mm



REVISION HISTORY

rev.	description	date
1.0	initial release	12/02/2019
1.01	added tube packaging details	03/02/2021
1.02	changed packaging tape width on 8 pole version	04/13/2022
1.03	logo, datasheet style update	08/05/2022

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



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

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