



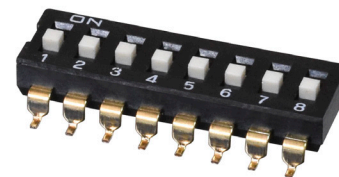
**THE DATASHEET OF
DS04-254-2-02BK-SMT**



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

FEATURES

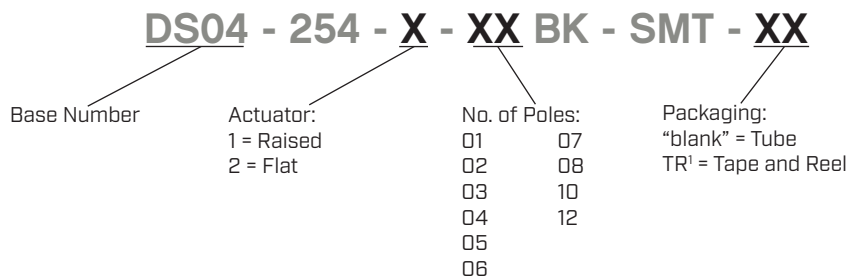
- 2.54 mm pitch
- 1-12 pole options
- raised or flat actuator option
- surface mount
- tube or tape & reel packaging



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



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

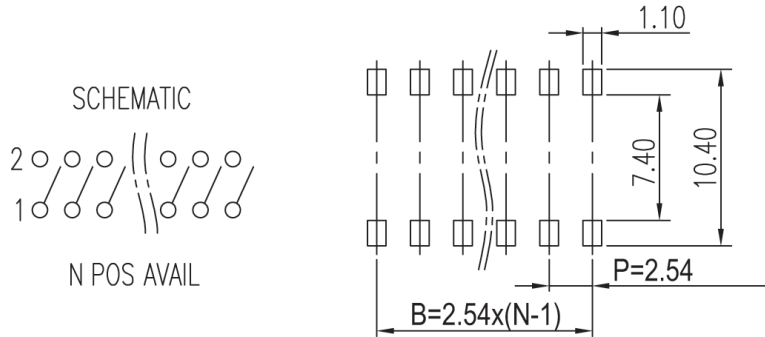
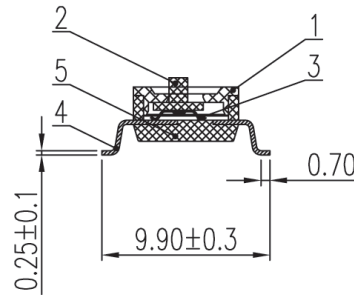
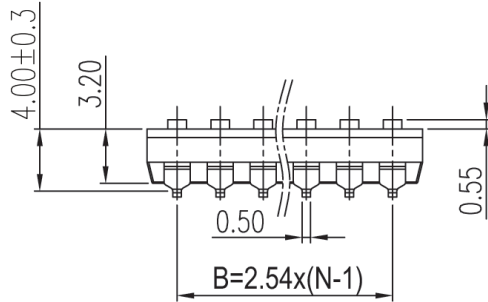
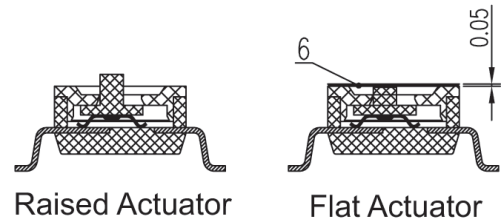
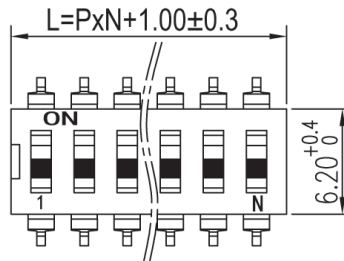
30.0<X≤120.0: ±0.30 mm

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	



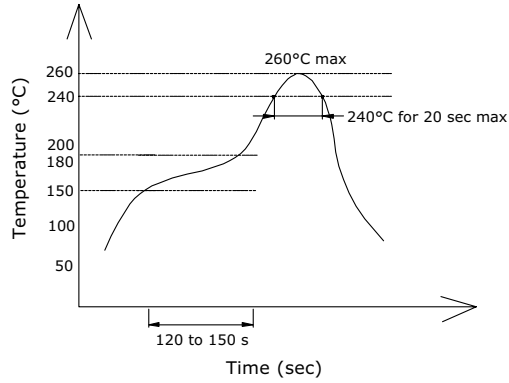
Recommended PCB Layout
Top View

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

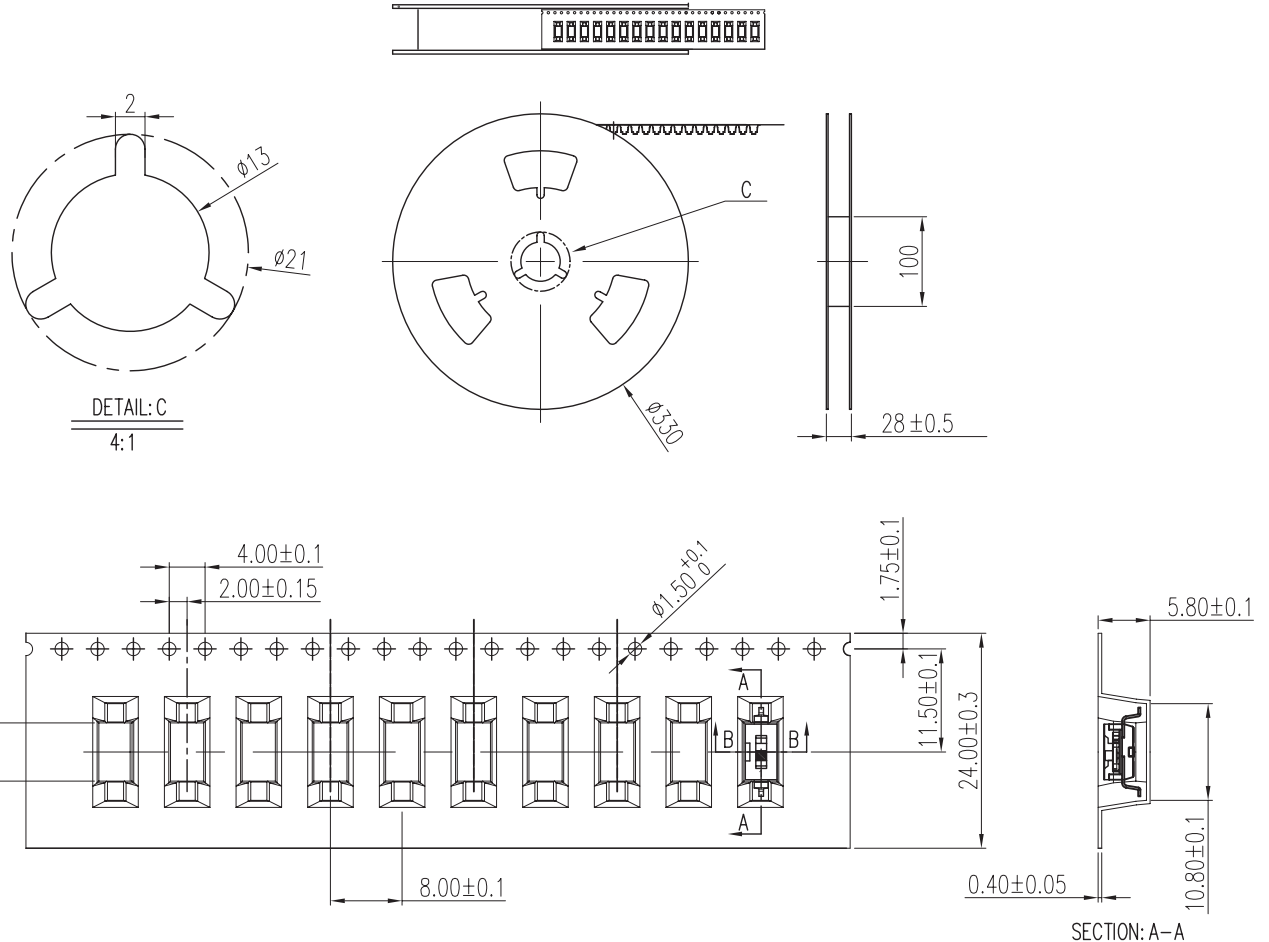
Notes: 2. Keep in "off" position during soldering.



PACKAGING (TAPE & REEL, 1 POLE MODELS)

units: mm

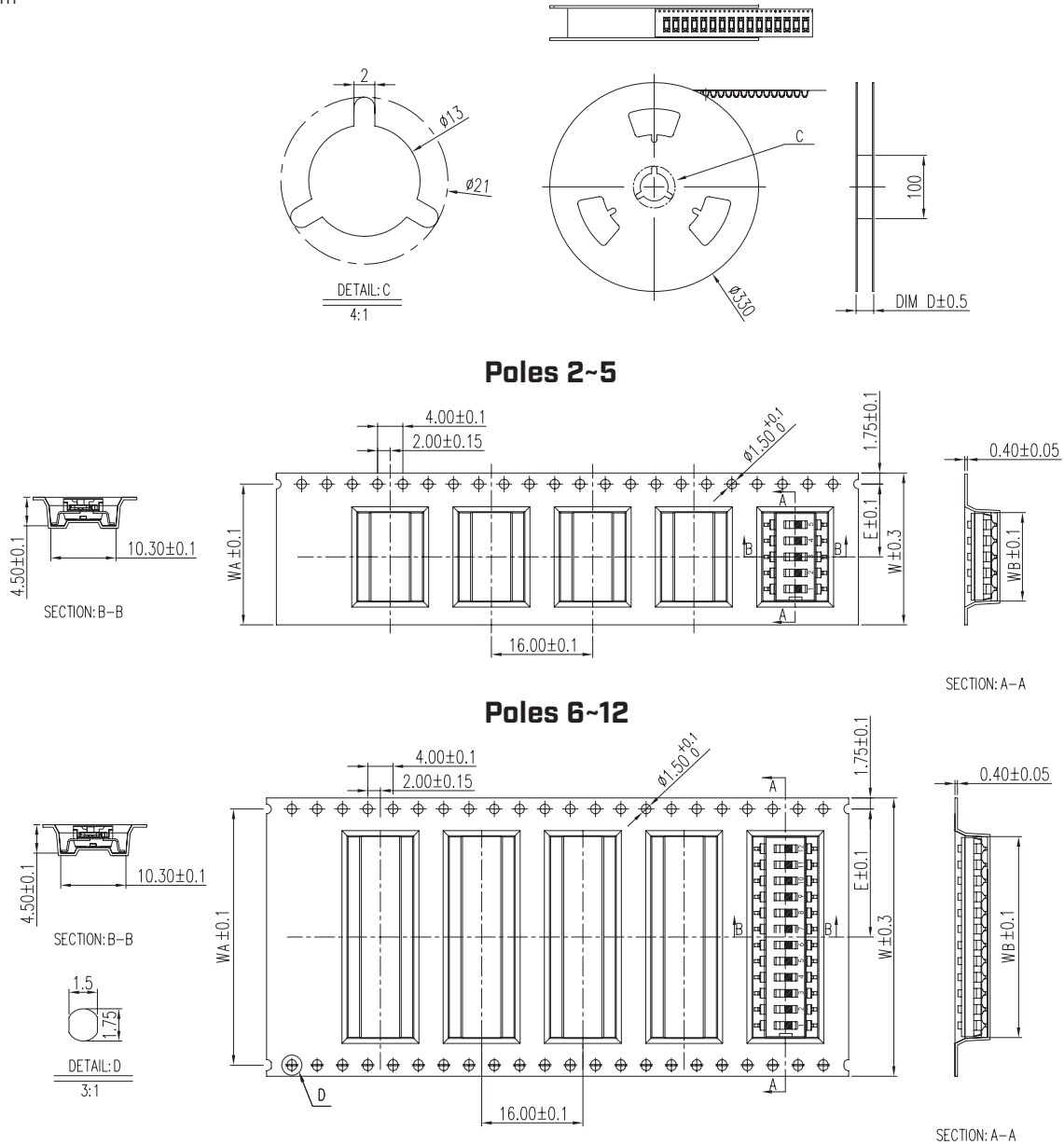
Reel Size: Ø330 mm
Reel QTY: 1500 pcs



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

units: mm

Reel Size: $\varnothing 330$ mm

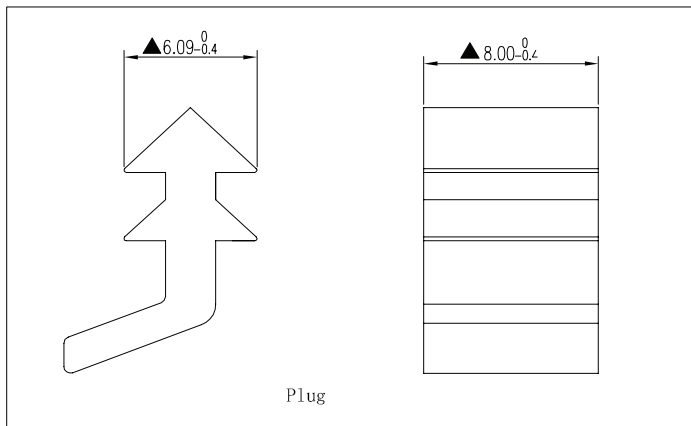
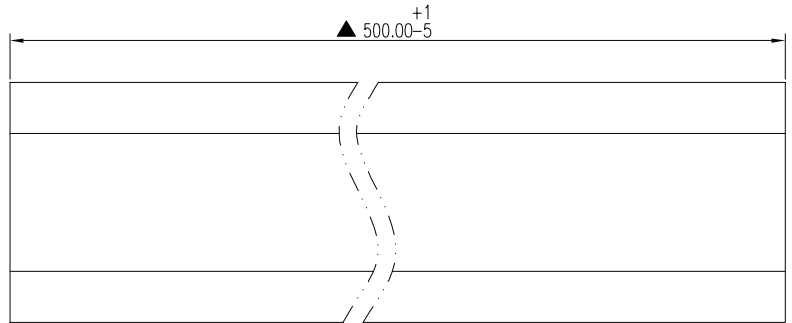
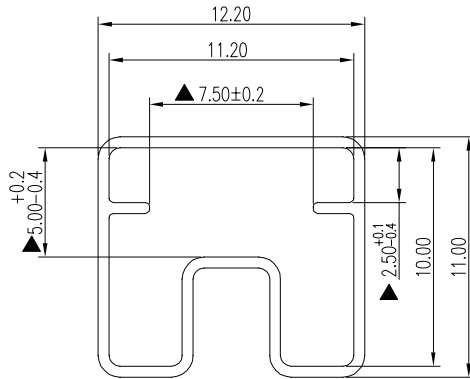


Tape Dimensions						
#Poles	W [mm]	WA [mm]	WB [mm]	E [mm]	D [mm]	QTY
2	16.00	14.55	6.26	7.50	20	800
3	16.00	14.55	8.92	7.50	20	800
4	24.00	22.25	11.46	11.50	28	800
5	24.00	22.25	14.00	11.50	28	800
6	32.00	28.50	16.54	14.20	36	800
7	32.00	28.50	19.08	14.20	36	800
8	44.00	40.50	21.62	20.25	48	800
10	44.00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



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