CUI DEVICES

date 12/02/2019

page 1 of 5

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

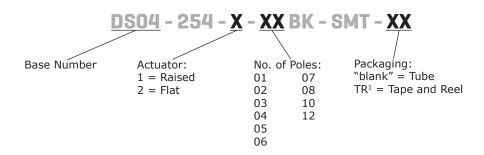




SPECIFICATIONS

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			МΩ
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



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

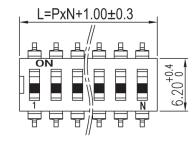
MECHANICAL DRAWING

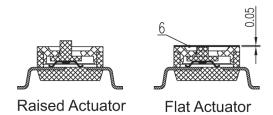
units: mm tolerance:

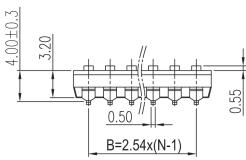
0.5<X≤3.0: ±0.15 mm 3.0<X≤6.0: ±0.20 mm 6.0<X≤30.0: ±0.25 mm 30.0<X≤120.0: ±0.30 mm 120.0<X≤400.0: ±0.50 mm X>400.0: ±0.80 mm unless otherwise noted

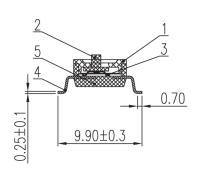
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	housing	PBT (UL94V-0)	black
2	actuator	PBT (UL94V-0)	white
3	contact	copper alloy	gold
4	pins 1,2	copper alloy	gold
5	base	PBT (UL94V-0)	black
6	tape	polyimide	

date 12/02/2019 page 2 of 5

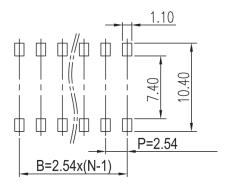












Recommended PCB Layout Top View

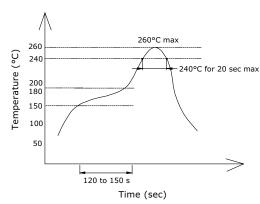
This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles.										
N	01	02	03	04	05	06	07	08	10	12
L	3.54	6.08	8.62	11.16	13.70	16.24	18.78	21.32	26.40	31.48
В		2.54	5.08	7.62	10.16	12.70	15.24	17.78	22.86	27.94

SECTION: A-A

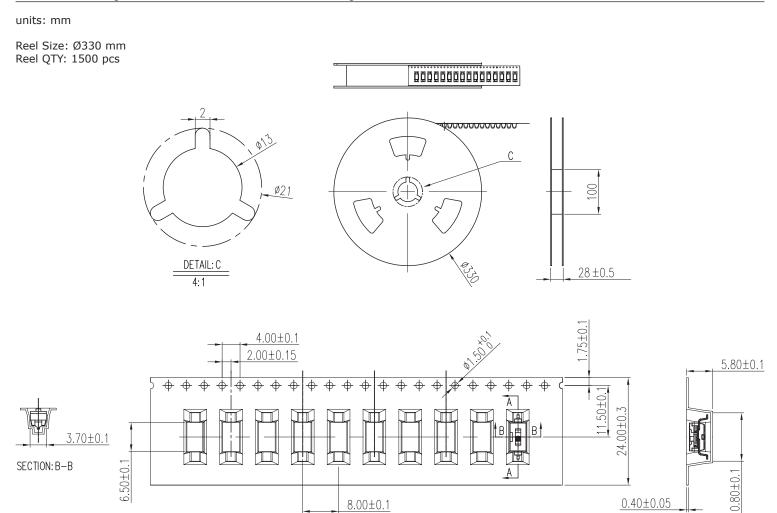
SOLDERABILITY

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.



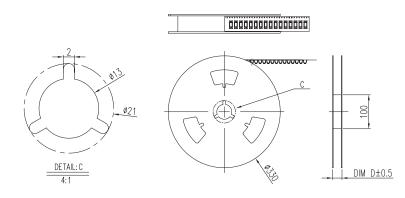
PACKAGING (TAPE & REEL, 1 POLE MODELS)



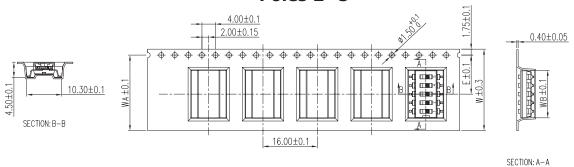
PACKAGING (TAPE & REEL, 2~12 POLE MODELS)

units: mm

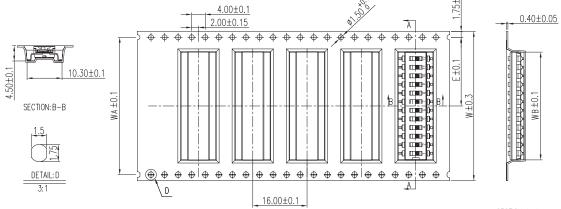
Reel Size: Ø330 mm



Poles 2~5







SECTION: A-

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	

Additional Resources: Product Page | 3D Model | PCB Footprint

CUI Devices | SERIES: DS04-254-SMT | DESCRIPTION: DIP SWITCH date 12/02/2019 | page 5 of 5

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.

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices 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.