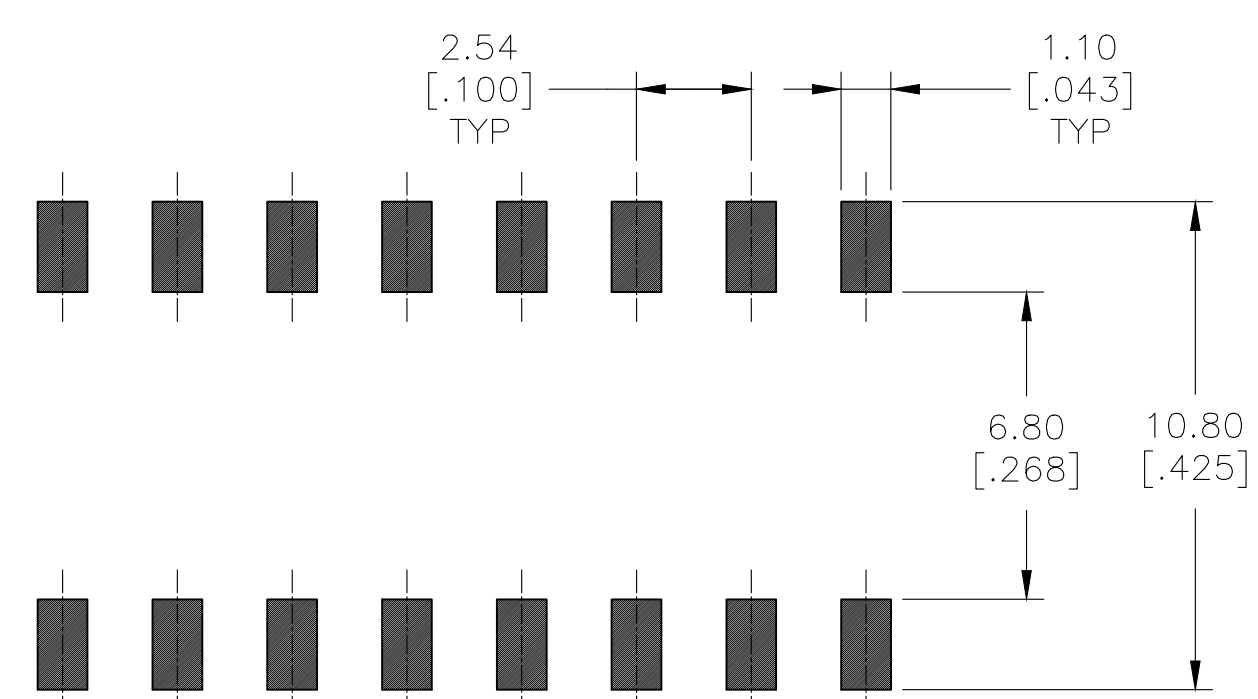
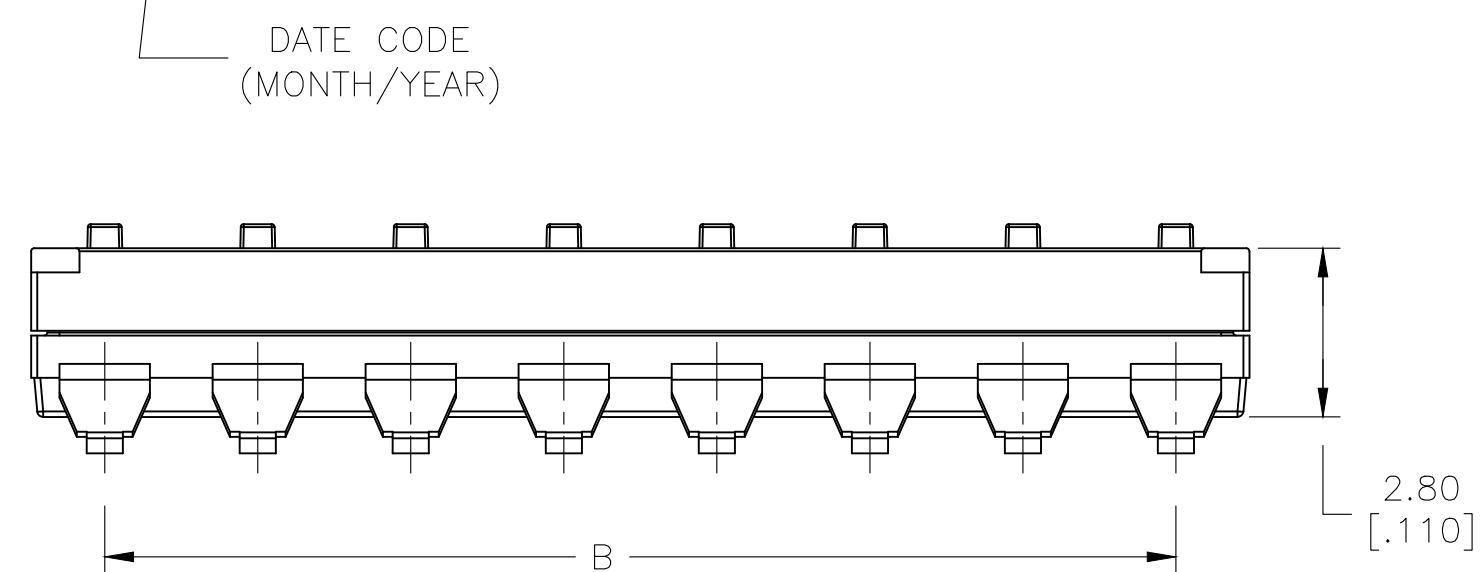
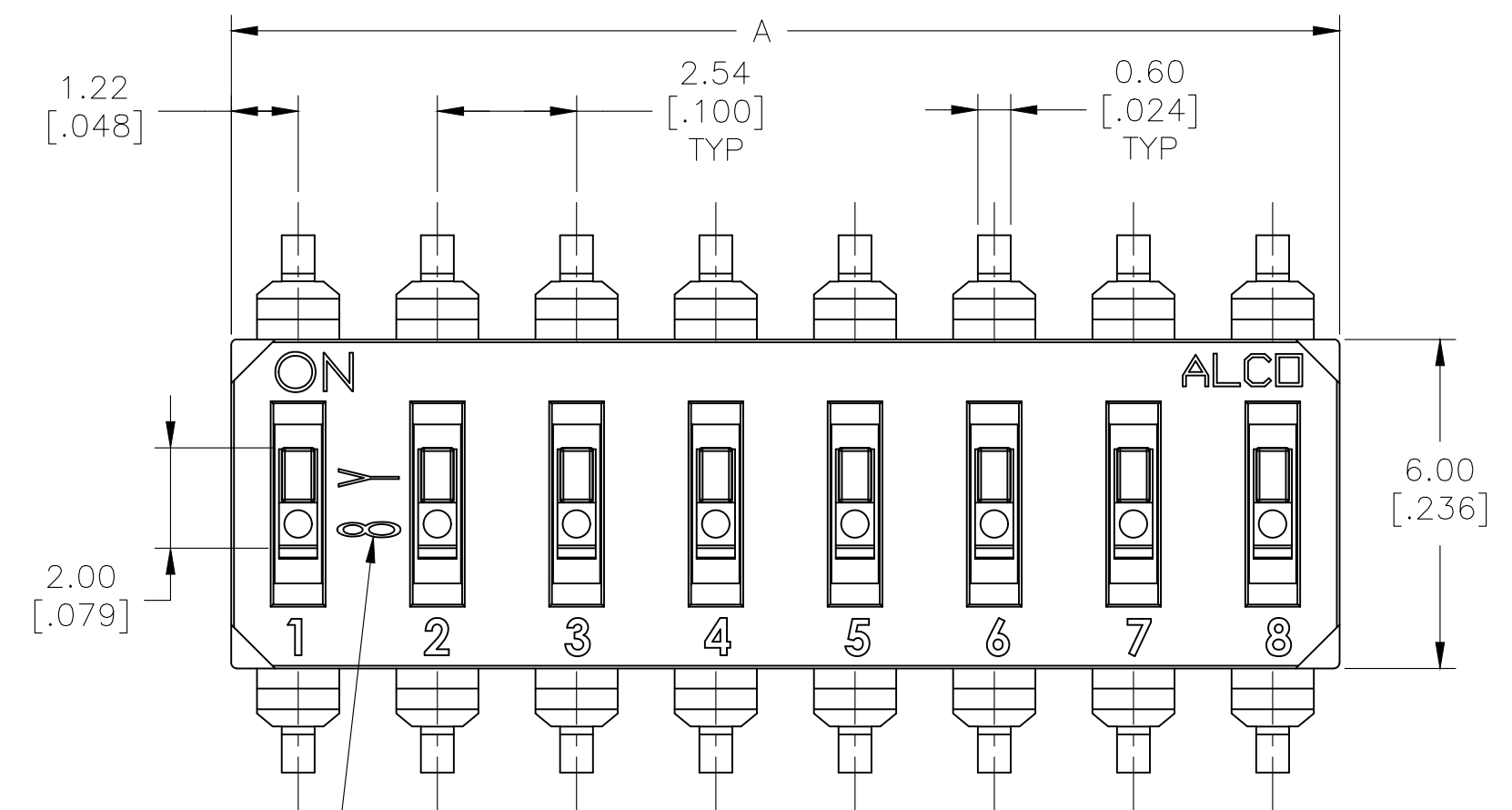


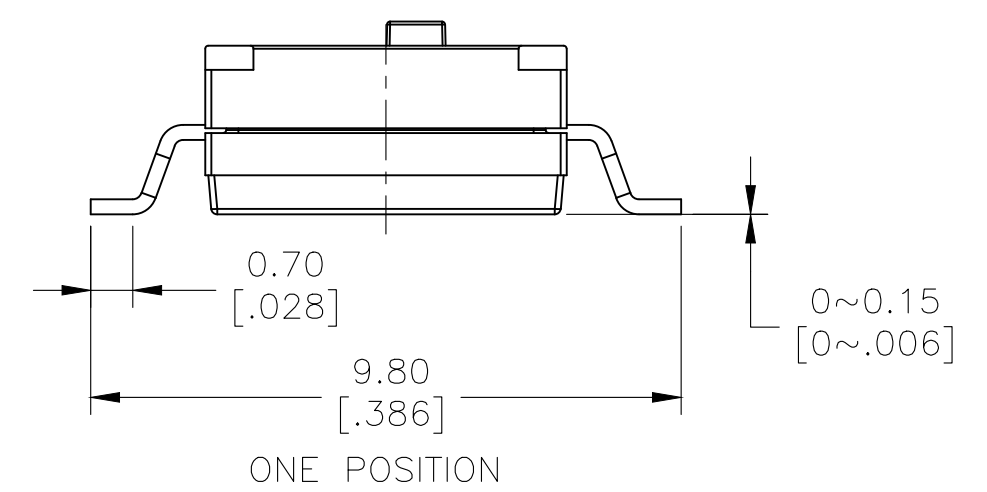
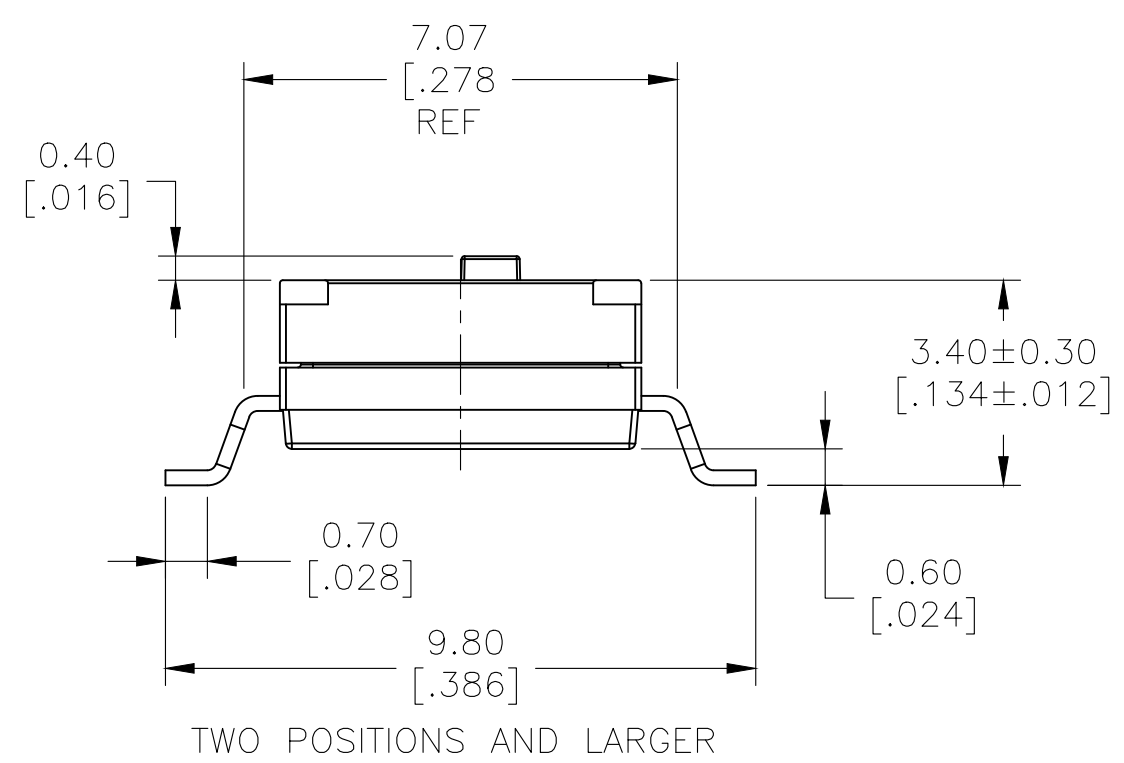
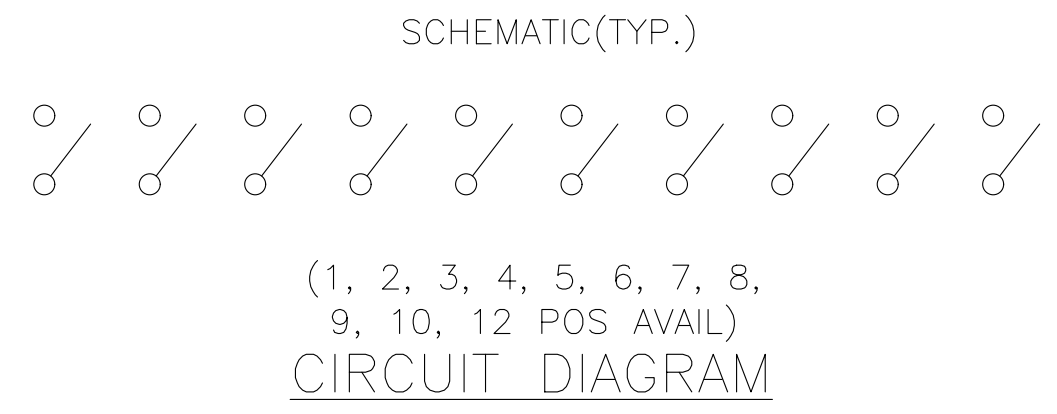
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION  
 © COPYRIGHT - TE Connectivity ALL RIGHTS RESERVED.

# M SERIES RAISED ACTUATOR

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
A		INITIAL RELEASE	29MAY2017	SK AS
A1		REVISED PER ECO-17-015842	27OCT2017	RK AS



$B \pm 0.10 = 2.54(P-1)$   
 $[B \pm 0.004 = .1(P-1)]$   
 P.C.B. LAYOUT



- EDS
- 04Q
- POSITIONS: 01,02,03,04,05,06, 07,08,09,10,12
- HALOGEN FREE
- ROHS COMPLIANT
- SMT: SG=GULL WING, SN=J STYLE
- PACKAGING: TU=TUBE, TR=TAPE AND REEL
- ACTUATOR: N=RAISED, R=RECESSED
- SEAL: N=NONE, S=TOP SEAL

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: SHIVAKUMAR S S	TE Connectivity	
DIMENSIONS: mm[INCHES]		CHK: ALEXANDER SHARPE	NAME: END STACKABLE DIP SWITCHES RAISED ACTUATOR	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEXANDER SHARPE	RESTRICTED TO	
0 PLC ± -	1 PLC ± -	PRODUCT SPEC	SIZE: A2	CAGE CODE: 00779
2 PLC ± 0.20[.008]	3 PLC ± -	APPLICATION SPEC	DRAWING NO: C-2319847	SCALE: 1:1
4 PLC ± -	ANGLES ± -	MATERIAL: -	WEIGHT: -	SHEET: 1 OF 4
FINISH: -		CUSTOMER DRAWING		REV: A1

2319847

4

3

2

1

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION  
 © COPYRIGHT - TE Connectivity ALL RIGHTS RESERVED.

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
-	-	SEE SHEET 1	-	-

# J SERIES RAISED ACTUATOR

Top view of the actuator showing dimensions and labels. The width is labeled 'A' and the height is 6.00 [.236]. The distance between the first and second switch is 1.22 [.048]. The pitch between switches is 2.54 [.100] TYP. The first switch is labeled 'ON' and the eighth is labeled 'ALCO'. The distance from the left edge to the center of the first switch is 2.00 [.079]. The distance between the center of the eighth switch and the right edge is 1.50 [.059].

SCHMATIC(TYP.)

(2, 3, 4, 5, 6, 7, 8, 9,  
10, 12 POS AVAIL)  
CIRCUIT DIAGRAM

Side view of the actuator showing dimensions. The height is 2.75 [.108]. The distance between the center of the first and eighth switch is labeled 'B'. The distance from the center of the first switch to the left edge is 0.60 [.024] TYP.

Cross-sectional view of the actuator showing dimensions. The height of the top housing is 0.40 [.016]. The height of the bottom housing is 0.70 [.028]. The distance between the center of the first and eighth switch is 5.00 [.197]. The total width is 7.86 [.309]. The angle of the bottom housing is 0°~10°.

P.C.B. LAYOUT showing dimensions for the actuator footprint. The pitch between switches is 2.54 [.100] TYP. The distance from the center of the eighth switch to the right edge is 1.10 [.043] TYP. The distance from the center of the first switch to the bottom edge is 4.50 [.177]. The total height is 8.50 [.335]. The formula for the width is  $B \pm 0.10 = 2.54(P-1)$  and  $[B \pm .004 = .1(P-1)]$ .

P.C.B. LAYOUT

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 29MAY2017 SHIVAKUMAR S S		
DIMENSIONS: mm[INCHES]		CHK 12MAY2017 ALEXANDER SHARPE		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD 29MAY2017 ALEXANDER SHARPE	NAME END STACKABLE DIP SWITCHES RAISED ACTUATOR	
0 PLC ± -		PRODUCT SPEC	SIZE CAGE CODE DRAWING NO RESTRICTED TO	
1 PLC ± -		APPLICATION SPEC	A2 00779 C-2319847 -	
2 PLC ± 0.20[.008]		WEIGHT	SCALE 1:1 SHEET 2 OF 4 REV A1	
3 PLC ± -		CUSTOMER DRAWING		
4 PLC ± -				
ANGLES ± -				
FINISH				

1471-9 (1/15)

Downloaded From [Onevac.com](http://Onevac.com)


2319847

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION  
 © COPYRIGHT - TE Connectivity ALL RIGHTS RESERVED.

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
-	-	SEE SHEET 1	-	-

NOTES	SERIES	B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER	TE PART NUMBER
		DIM				
3	J	27.94 [1.100]	30.38 [1.196]	12	EDS12SNNNTR04Q	4-2319847-2
		22.86 [.900]	25.3 [.996]	10	EDS10SNNNTR04Q	4-2319847-1
		20.32 [.800]	22.76 [.896]	09	EDS09SNNNTR04Q	4-2319847-0
		17.78 [.700]	20.22 [.796]	08	EDS08SNNNTR04Q	3-2319847-9
		15.24 [.600]	17.68 [.696]	07	EDS07SNNNTR04Q	3-2319847-8
		12.70 [.500]	15.14 [.596]	06	EDS06SNNNTR04Q	3-2319847-7
		10.16 [.400]	12.60 [.496]	05	EDS05SNNNTR04Q	3-2319847-6
		7.62 [.300]	10.06 [.396]	04	EDS04SNNNTR04Q	3-2319847-5
		5.08 [.200]	7.52 [.296]	03	EDS03SNNNTR04Q	3-2319847-4
		2.54 [.100]	4.98 [.196]	02	EDS02SNNNTR04Q	3-2319847-3
		27.94 [1.100]	30.38 [1.196]	12	EDS12SGNNTR04Q	3-2319847-2
		22.86 [.900]	25.3 [.996]	10	EDS10SGNNTR04Q	3-2319847-1
	20.32 [.800]	22.76 [.896]	09	EDS09SGNNTR04Q	3-2319847-0	
	17.78 [.700]	20.22 [.796]	08	EDS08SGNNTR04Q	2-2319847-9	
	15.24 [.600]	17.68 [.696]	07	EDS07SGNNTR04Q	2-2319847-8	
	12.70 [.500]	15.14 [.596]	06	EDS06SGNNTR04Q	2-2319847-7	
	10.16 [.400]	12.60 [.496]	05	EDS05SGNNTR04Q	2-2319847-6	
	7.62 [.300]	10.06 [.396]	04	EDS04SGNNTR04Q	2-2319847-5	
	5.08 [.200]	7.52 [.296]	03	EDS03SGNNTR04Q	2-2319847-4	
	2.54 [.100]	4.98 [.196]	02	EDS02SGNNTR04Q	2-2319847-3	
	-	2.44 [.096]	01	EDS01SGNNTR04Q	2-2319847-2	
	27.94 [1.100]	30.38 [1.196]	12	EDS12SNNNTU04Q	2-2319847-1	

NOTES	SERIES	B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER	TE PART NUMBER
		DIM				
2	J	22.86 [.900]	25.3 [.996]	10	EDS10SNNNTU04Q	2-2319847-0
		20.32 [.800]	22.76 [.896]	09	EDS09SNNNTU04Q	1-2319847-9
		17.78 [.700]	20.22 [.796]	08	EDS08SNNNTU04Q	1-2319847-8
		15.24 [.600]	17.68 [.696]	07	EDS07SNNNTU04Q	1-2319847-7
		12.70 [.500]	15.14 [.596]	06	EDS06SNNNTU04Q	1-2319847-6
		10.16 [.400]	12.60 [.496]	05	EDS05SNNNTU04Q	1-2319847-5
		7.62 [.300]	10.06 [.396]	04	EDS04SNNNTU04Q	1-2319847-4
		5.08 [.200]	7.52 [.296]	03	EDS03SNNNTU04Q	1-2319847-3
		2.54 [.100]	4.98 [.196]	02	EDS02SNNNTU04Q	1-2319847-2
		27.94 [1.100]	30.38 [1.196]	12	EDS12SGNNTU04Q	1-2319847-1
		22.86 [.900]	25.3 [.996]	10	EDS10SGNNTU04Q	1-2319847-0
		20.32 [.800]	22.76 [.896]	09	EDS09SGNNTU04Q	2319847-9
	17.78 [.700]	20.22 [.796]	08	EDS08SGNNTU04Q	2319847-8	
	15.24 [.600]	17.68 [.696]	07	EDS07SGNNTU04Q	2319847-7	
	12.70 [.500]	15.14 [.596]	06	EDS06SGNNTU04Q	2319847-6	
	10.16 [.400]	12.60 [.496]	05	EDS05SGNNTU04Q	2319847-5	
	7.62 [.300]	10.06 [.396]	04	EDS04SGNNTU04Q	2319847-4	
	5.08 [.200]	7.52 [.296]	03	EDS03SGNNTU04Q	2319847-3	
	2.54 [.100]	4.98 [.196]	02	EDS02SGNNTU04Q	2319847-2	
	-	2.44 [.096]	01	EDS01SGNNTU04Q	2319847-1	

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHIVAKUMAR S S 29MAY2017	 TE Connectivity	
DIMENSIONS: mm[INCHES]		CHK ALEXANDER SHARPE 12MAY2017		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEXANDER SHARPE 29MAY2017	NAME END STACKABLE DIP SWITCHES RAISED ACTUATOR	
0 PLC ± - 1 PLC ± - 2 PLC ± 0.20[.008] 3 PLC ± - 4 PLC ± - ANGLES ± -		PRODUCT SPEC -	RESTRICTED TO -	
MATERIAL		FINISH	WEIGHT	SIZE A2
				CAGE CODE 00779
				DRAWING NO 2319847
				SCALE 1:1
				SHEET 3 of 4
				REV A1
				CUSTOMER DRAWING

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
-	-	SEE SHEET 1	-	-

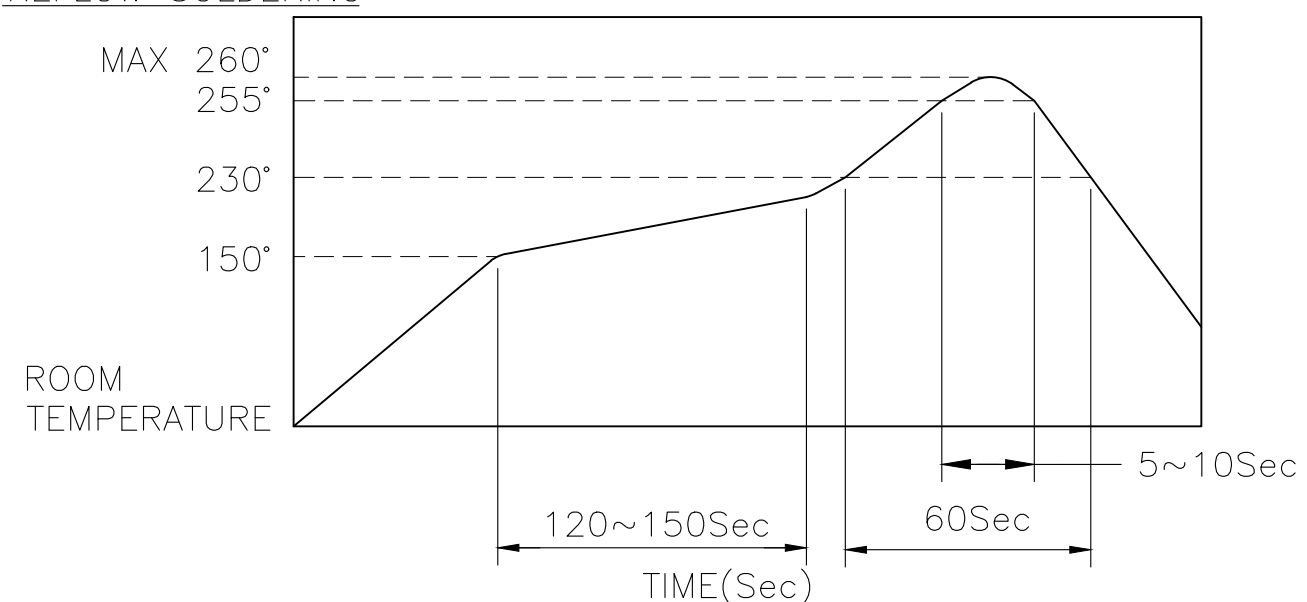
SOLDERING CONDITIONS:

THE CONDITIONS MENTIONED BELOW IS THE TEMPERATURE ON THE CU FOIL OF THE P.C.B SURFACE. DO NOT ALLOW THE SWITCH'S SURFACE TEMPERATURE TO EXCEED 260°C.

MANUAL SOLDERING

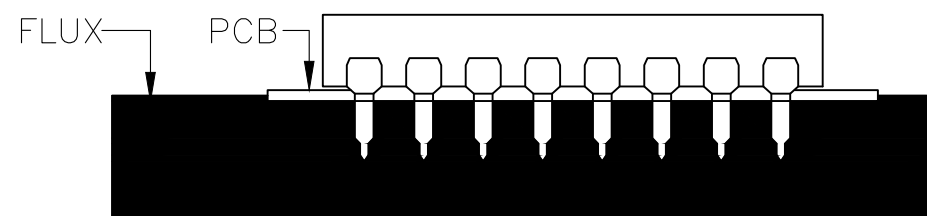
SOLDERING TEMPERATURE	MAX. 350°C.
CONTINUOUS SOLDERING TIME	MAX. 5 SECONDS.

REFLOW SOLDERING



HANDLING PRECAUTIONS

- CARE SHOULD BE EXERCISED SO THAT FLUX FROM THE UPPER PART OF THE PRINTED CIRCUIT BOARD DOES NOT ADHERE TO THE SWITCH.
- DON'T CLEAN THE SWITCH BODY EXCEPT WITH TOP TAPE SEALED TYPE, WHICH CAN ONLY SPRAY OF CLEANING METHOD FROM TOP OF S/W.
- ENSURE FLUX DOES NOT RISE ABOVE THE TOP SURFACE OF THE PCB.



SPECIFICATIONS:

MATERIALS:

BASE: PA (HIGH-TEMP. NYLON) UL94V-0  
 COVER: PA (HIGH-TEMP. NYLON) UL94V-0  
 ACTUATOR: LCP UL94V-0  
 CONTACT: COPPER ALLOY, GOLD (in contact area)  
 OVER NICKEL PLATE  
 TERMINAL: BRASS ALLOY, GOLD PLATE  
 TAPE: POLYAMIDE.

ELECTRICAL:

CONTACT RATING: NON-SWITCHING 100mA @ 50 VDC.  
 SWITCHING: 25mA @ 24 VDC.  
 INITIAL CONTACT RESISTANCE: 100mΩ MAX. @ 2 VDC. 10mA.  
 INSULATION RESISTANCE: 100 MEGOHMS MIN. @ 500 VDC,  
 1 MINUTE +/- 5 SECONDS.  
 DIELECTRIC STRENGTH: 500 VAC (50 OR 60 HZ), 1 MINUTE.  
 DURABILITY: 2,000 CYCLES.  
 CAPACITANCE: 5 pF MAX @ 1 MHz +/- 10 KHz.

MECHANICAL:

OPERATING FORCE: 1000gf MAX.

ENVIRONMENTAL:

OPERATING TEMPERATURE: -20°C TO +85°C.  
 STORAGE TEMPERATURE: -40°C TO +85°C.  
 SOLDER HEAT RESISTANCE PER 109-201, CONDITION B.  
 SOLDERABILITY PER JIS C 0050 & JIS C 0053.

NOTES:

- ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27 JAN 2003 (ROHS).



TUBE PACKAGING.



TAPE AND REEL PACKAGING.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 29MAY2017 SHIVAKUMAR S S	TE Connectivity	
DIMENSIONS: mm[INCHES]		CHK 12MAY2017 ALEXANDER SHARPE		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD 29MAY2017 ALEXANDER SHARPE	NAME END STACKABLE DIP SWITCHES RAISED ACTUATOR	
0 PLC ± -		PRODUCT SPEC	SIZE	CAGE CODE
1 PLC ± -		APPLICATION SPEC	A2	00779
2 PLC ± 0.20[.008]		WEIGHT	DRAWING NO C=2319847	
3 PLC ± -		MATERIAL	RESTRICTED TO	
4 PLC ± -		FINISH	SCALE 1:1 SHEET 4 OF 4 REV A1	
ANGLES ± -		CUSTOMER DRAWING		

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)