

THIS DRAWING IS UNPUBLISHED.

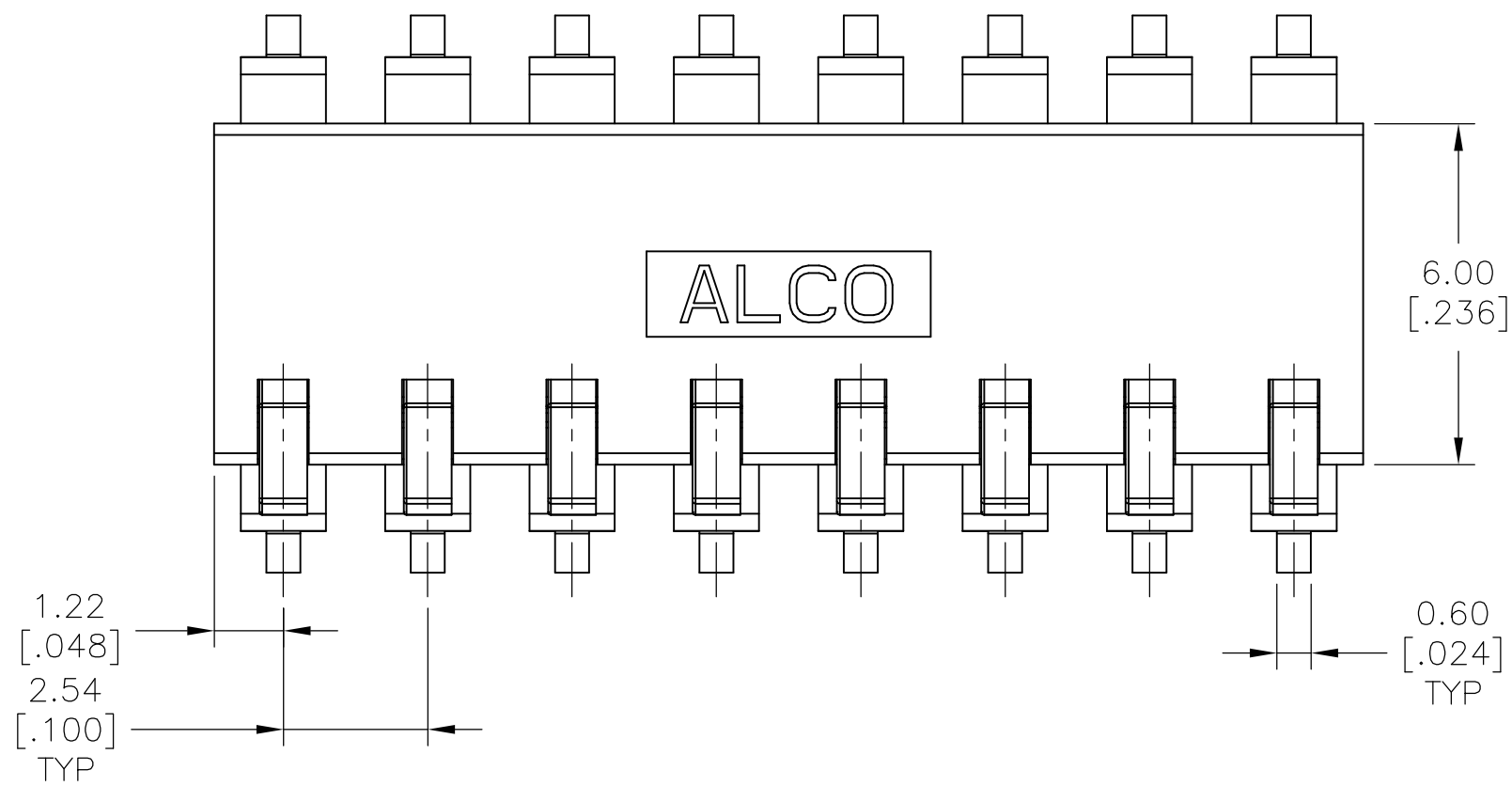
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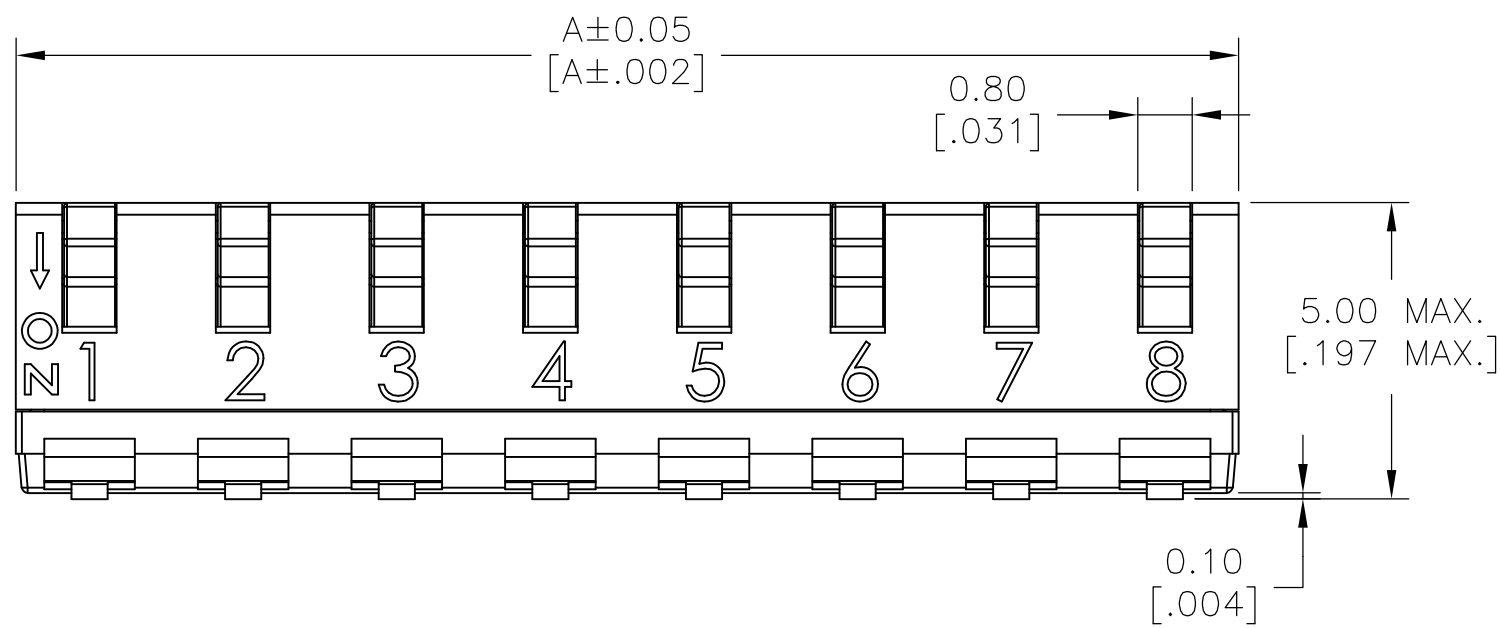
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REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL RELEASE	29MAY2017	SK	AS

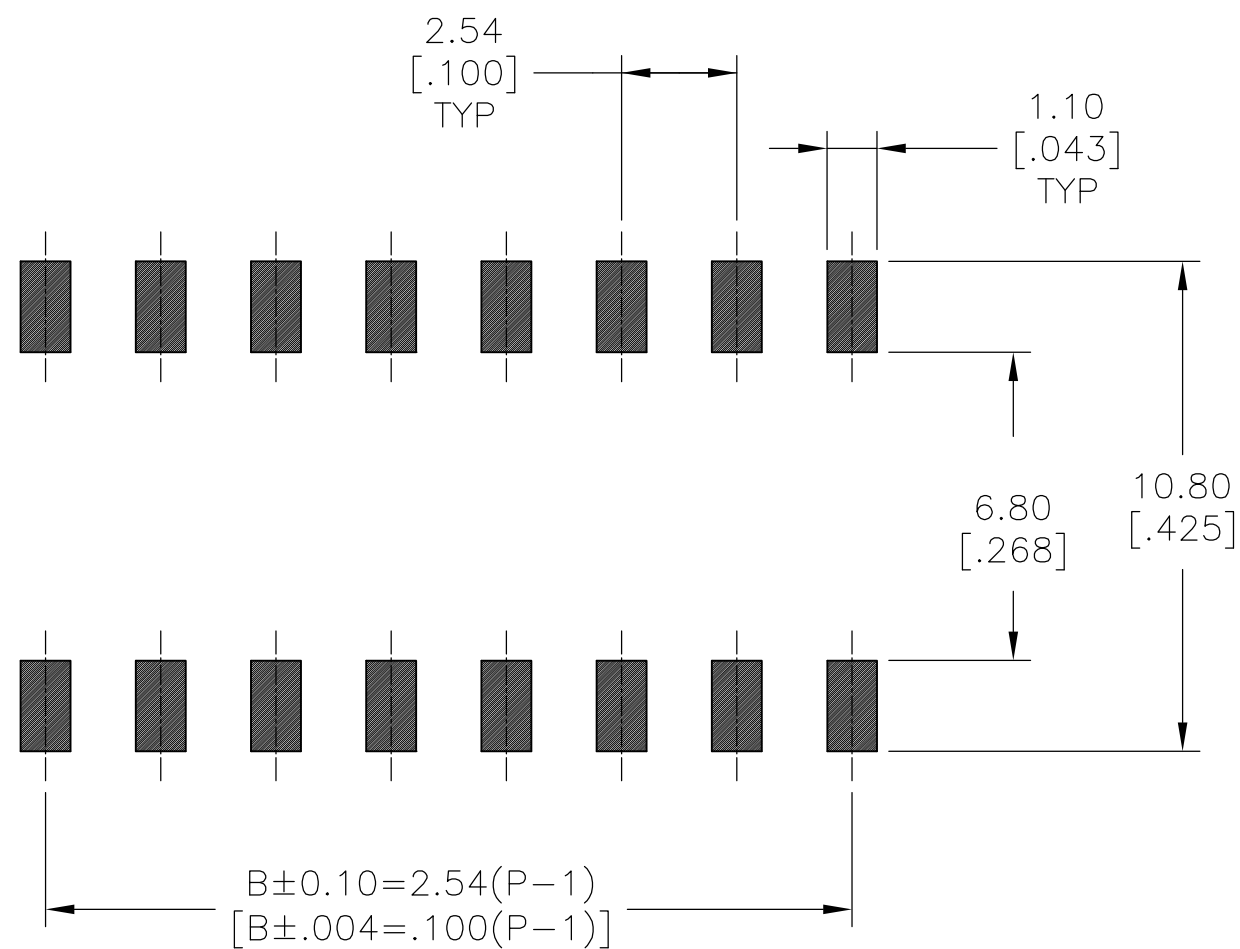
D



C

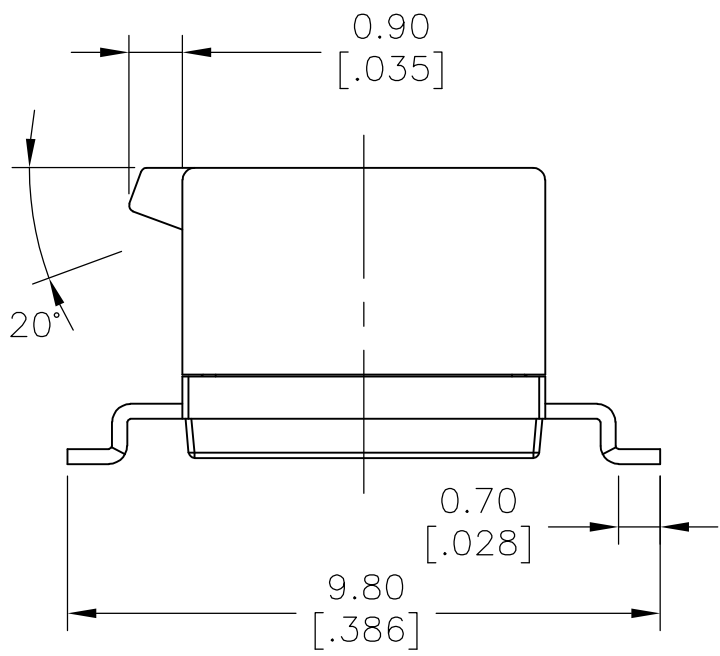
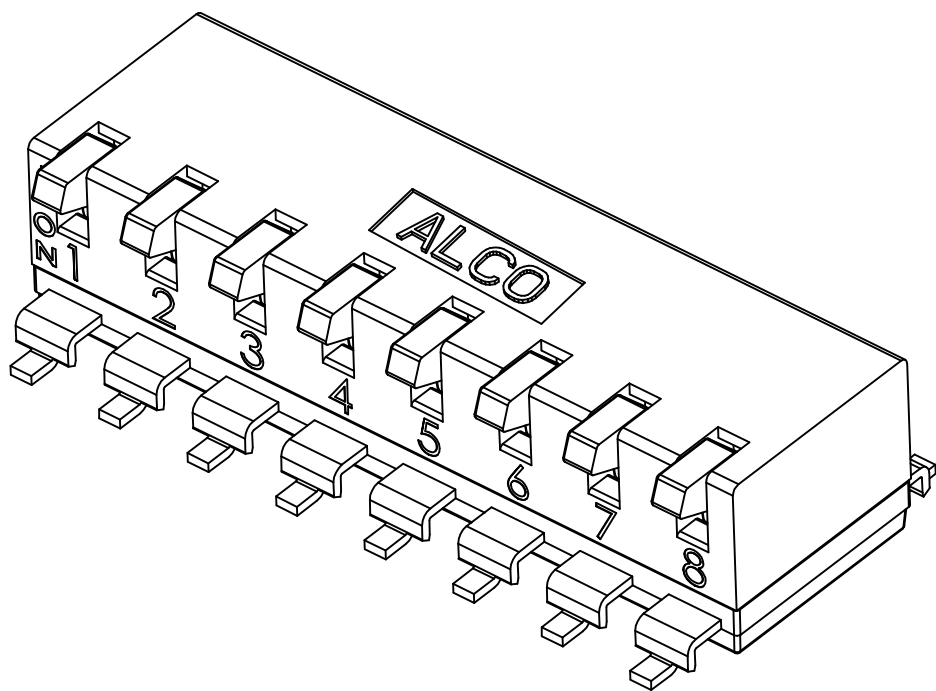


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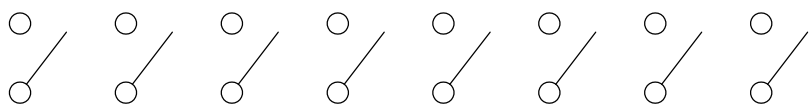


A

LONG ACTUATOR
PUSH DOWN ON



SCHEMATIC(TYP.)



(2, 4, 6, 8, 10 POS AVAIL)

CIRCUIT DIAGRAM

EDSP SG 04

POSITIONS:
02,04,06,08,10

SMT:GULL WING

ACTUATOR:
L=LONG
R=SHORT

ROHS COMPLIANT

PACKAGING:
TU=TUBE
TR=TAPE AND REEL

SEAL:
N=NONE
S=TOP SEAL

ACTUATION:
N=PUSH DOWN ON
F=PUSH UP ON

THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN SHIVAKUMAR S S 12MAY2017		TE Connectivity		
DIMENSIONS: mm[INCHES]			CHK ALEXANDER SHARPE 12MAY2017	APVD ALEXANDER SHARPE 12MAY2017			
			TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME		
			0 PLC ± - 1 PLC ± - 2 PLC ± 0.20[.008] 3 PLC ± - 4 PLC ± - ANGLES ± - FINISH		PIANO DIP SWITCH END STACKABLE		
MATERIAL			WEIGHT		SIZE	CAGE CODE	DRAWING NO
-			-		A2	00779	C=2319764
			CUSTOMER DRAWING		SCALE	SHEET	REV
					1:1	1 of 4	A

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

D

C

B

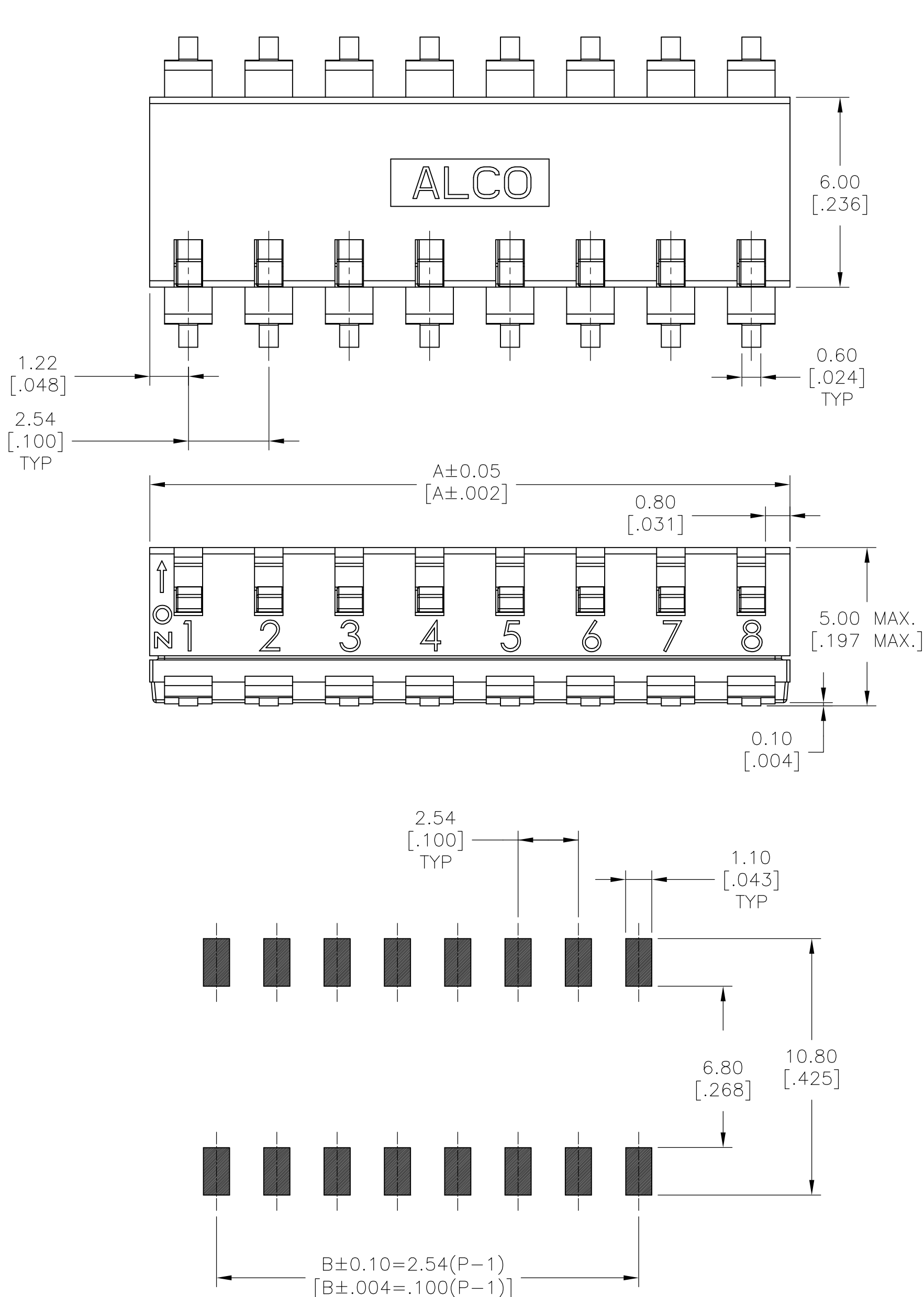
A

D

C

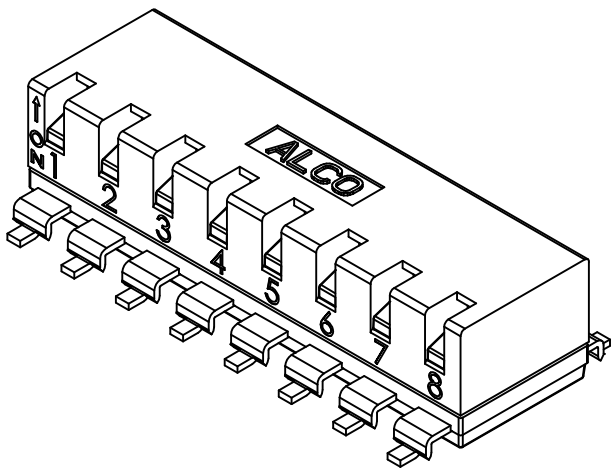
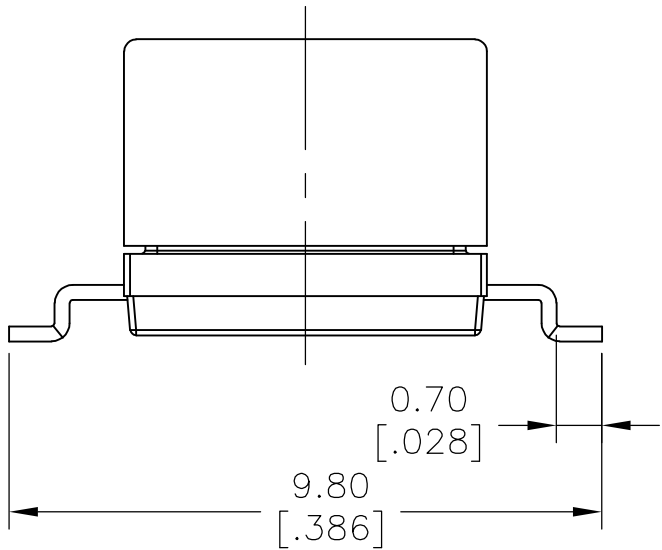
B

A

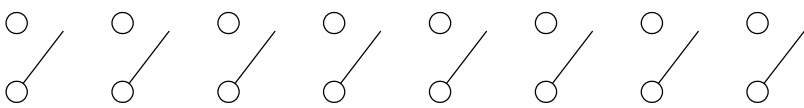


P.C.B. LAYOUT

SHORT ACTUATOR
PUSH UP ON



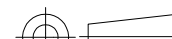
SCHEMATIC(TYP.)



(2, 4, 6, 8, 10 POS AVAIL)

CIRCUIT DIAGRAM

2319764

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHIVAKUMAR S S 12MAY2017		 TE Connectivity							
DIMENSIONS: mm[INCHES]		CHK ALEXANDER SHARPE 12MAY2017									
	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± 0.20[.008] 3 PLC ± - 4 PLC ± - ANGLES ± -		APVD ALEXANDER SHARPE 12MAY2017		NAME PIANO DIP SWITCH END STACKABLE - -						
			PRODUCT SPEC -								
			APPLICATION SPEC -								
			WEIGHT -								
MATERIAL -	FINISH -		SIZE A2		CAGE CODE 00779		DRAWING NO C=2319764		RESTRICTED TO -		
CUSTOMER DRAWING						SCALE 1:1		SHEET 2 of 4		REV A	

4				3				2				1																																								
THIS DRAWING IS UNPUBLISHED.				RELEASED FOR PUBLICATION				-				REVISIONS																																								
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													-	SEE SHEET 1		-	-	-																																		
YES	SHORT	DOWN ON	3	7.62 [.300]	10.06 [.396]	04	EDSP04SGRNSTR04	5-2319764-2	YES	SHORT	UP ON	2	2.54 [.100]	4.98 [.196]	02	EDSP02SGRFSTU04	2-2319764-6																																			
				2.54 [.100]	4.98 [.196]	02	EDSP02SGRNSTR04	5-2319764-1					22.86 [.900]	25.30 [.996]	10	EDSP10SGRNSTU04	2-2319764-5																																			
22.86 [.900]				25.30 [.996]	10	EDSP10SGRFNTR04	5-2319764-0	17.78 [.700]			20.22 [.796]		08	EDSP08SGRNSTU04	2-2319764-4																																					
17.78 [.700]				20.22 [.796]	08	EDSP08SGRFNTR04	4-2319764-9	12.70 [.500]			15.14 [.596]		06	EDSP06SGRNSTU04	2-2319764-3																																					
12.70 [.500]				15.14 [.596]	06	EDSP06SGRFNTR04	4-2319764-8	7.62 [.300]			10.06 [.396]		04	EDSP04SGRNSTU04	2-2319764-2																																					
7.62 [.300]				10.06 [.396]	04	EDSP04SGRFNTR04	4-2319764-7	2.54 [.100]			4.98 [.196]		02	EDSP02SGRNSTU04	2-2319764-1																																					
2.54 [.100]				4.98 [.196]	02	EDSP02SGRFNTR04	4-2319764-6	22.86 [.900]			25.30 [.996]		10	EDSP10SGRFNTU04	2-2319764-0																																					
22.86 [.900]				25.30 [.996]	10	EDSP10SGLFNTR04	4-2319764-5	17.78 [.700]			20.22 [.796]		08	EDSP08SGRFNTU04	1-2319764-9																																					
17.78 [.700]				20.22 [.796]	08	EDSP08SGLFNTR04	4-2319764-4	12.70 [.500]			15.14 [.596]		06	EDSP06SGRFNTU04	1-2319764-8																																					
12.70 [.500]				15.14 [.596]	06	EDSP06SGLFNTR04	4-2319764-3	7.62 [.300]			10.06 [.396]		04	EDSP04SGRFNTU04	1-2319764-7																																					
LONG	UP ON	7.62 [.300]		10.06 [.396]	04	EDSP04SGLFNTR04	4-2319764-2	2.54 [.100]		4.98 [.196]	02		EDSP02SGRFNTU04	1-2319764-6																																						
		2.54 [.100]		4.98 [.196]	02	EDSP02SGLFNTR04	4-2319764-1	22.86 [.900]		25.30 [.996]	10		EDSP10SGLFNTU04	1-2319764-5																																						
		22.86 [.900]		25.30 [.996]	10	EDSP10SGRNNTRO4	4-2319764-0	17.78 [.700]		20.22 [.796]	08		EDSP08SGLFNTU04	1-2319764-4																																						
		17.78 [.700]		20.22 [.796]	08	EDSP08SGRNNTRO4	3-2319764-9	12.70 [.500]		15.14 [.596]	06		EDSP06SGLFNTU04	1-2319764-3																																						
		12.70 [.500]		15.14 [.596]	06	EDSP06SGRNNTRO4	3-2319764-8	7.62 [.300]		10.06 [.396]	04		EDSP04SGLFNTU04	1-2319764-2																																						
		7.62 [.300]		10.06 [.396]	04	EDSP04SGRNNTRO4	3-2319764-7	2.54 [.100]		4.98 [.196]	02		EDSP02SGLFNTU04	1-2319764-1																																						
		2.54 [.100]		4.98 [.196]	02	EDSP02SGRNNTRO4	3-2319764-6	22.86 [.900]		25.30 [.996]	10		EDSP10SGRNNTU04	1-2319764-0																																						
		22.86 [.900]		25.30 [.996]	10	EDSP10SGLNNTR04	3-2319764-5	17.78 [.700]		20.22 [.796]	08		EDSP08SGRNNTU04	2319764-9																																						
		17.78 [.700]		20.22 [.796]	08	EDSP08SGLNNTR04	3-2319764-4	12.70 [.500]		15.14 [.596]	06		EDSP06SGRNNTU04	2319764-8																																						
		12.70 [.500]		15.14 [.596]	06	EDSP06SGLNNTR04	3-2319764-3	7.62 [.300]		10.06 [.396]	04		EDSP04SGRNNTU04	2319764-7																																						
SHORT	DOWN ON	7.62 [.300]	10.06 [.396]	04	EDSP04SGLNNTR04	3-2319764-2	2.54 [.100]	4.98 [.196]	02	EDSP02SGRNNTU04	2319764-6																																									
		2.54 [.100]	4.98 [.196]	02	EDSP02SGLNNTR04	3-2319764-1	22.86 [.900]	25.30 [.996]	10	EDSP10SGLNNTU04	2319764-5																																									
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		17.78 [.700]	20.22 [.796]	08	EDSP08SGRFSTU04	2-2319764-9	12.70 [.500]	15.14 [.596]	06	EDSP06SGLNNTU04	2319764-3																																									
		12.70 [.500]	15.14 [.596]	06	EDSP06SGRFSTU04	2-2319764-8	7.62 [.300]	10.06 [.396]	04	EDSP04SGLNNTU04	2319764-2																																									
		7.62 [.300]	10.06 [.396]	04	EDSP04SGRFSTU04	2-2319764-7	2.54 [.100]	4.98 [.196]	02	EDSP02SGLNNTU04	2319764-1																																									
YES	SHORT	UP ON	2	22.86 [.900]	25.30 [.996]	10	EDSP10SGRFSTU04	3-2319764-0	NO	SHORT	DOWN ON	2	2.54 [.100]	4.98 [.196]	02	EDSP02SGRNNTU04	2319764-6																																			
				17.78 [.700]	20.22 [.796]	08	EDSP08SGRFSTU04	2-2319764-9					22.86 [.900]	25.30 [.996]	10	EDSP10SGLNNTU04	2319764-5																																			
12.70 [.500]				15.14 [.596]	06	EDSP06SGRFSTU04	2-2319764-8	17.78 [.700]					20.22 [.796]	08	EDSP08SGRNNTU04	2319764-4																																				
7.62 [.300]				10.06 [.396]	04	EDSP04SGRFSTU04	2-2319764-7	12.70 [.500]					15.14 [.596]	06	EDSP06SGLNNTU04	2319764-3																																				
TAPE	ACTUATOR TYPE	ACTUATION PUSH		NOTE	B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER		TE PART NUMBER			B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER	TE PART NUMBER																																			
					DIM													DIM																																		
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														DIMENSIONS: mm[INCHES]					TOLERANCES UNLESS OTHERWISE SPECIFIED:										CHK 12MAY2017 ALEXANDER SHARPE																							
																			0 PLC ± - 1 PLC ± - 2 PLC ± 0.20[.008] 3 PLC ± - 4 PLC ± - ANGLES ± -					APVD 12MAY2017 ALEXANDER SHARPE					NAME																							
														MATERIAL -					FINISH -					APPLICATION SPEC -					SIZE					CAGE CODE					DRAWING NO					RESTRICTED TO								
																								WEIGHT					A2 00779					C=2319764																		
																								CUSTOMER DRAWING					SCALE 1:1					SHEET 3 OF 4					REV A													

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

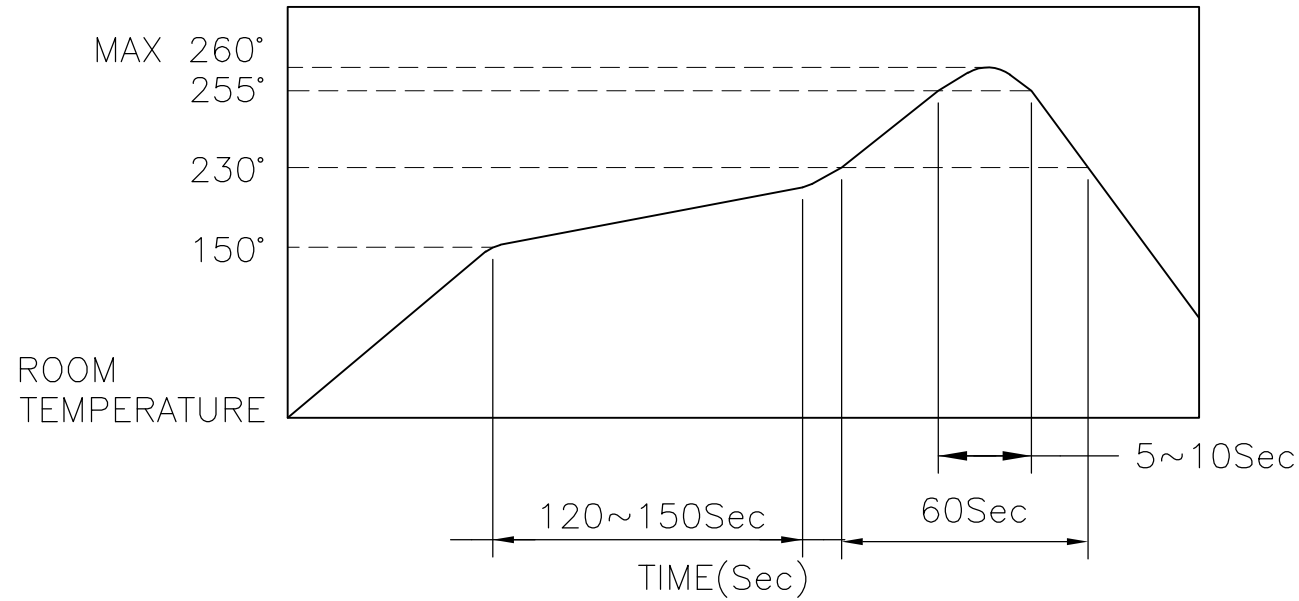
SOLDERING CONDITIONS:

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

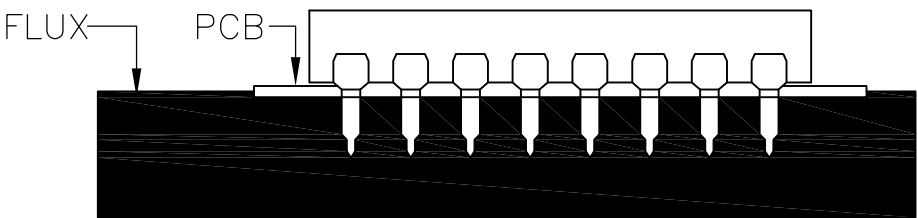
SOLDERING TEMPERATURE	MAX. 350°C.
CONTINUOUS SOLDERING TIME	MAX. 5 SECONDS.

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: 100 VAC (50 OR 60 HZ), 1 MINUTE.
DURABILITY: 2,000 CYCLES.
CAPACITANCE: 5 pF MAX @ 1 MHz +/- 10 KHz.

MECHANICAL:

OPERATING FORCE: 800gf 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:

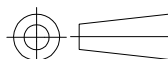
- ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27 JAN 2003 (ROHS).



TUBE PACKAGING.



TAPE AND REEL PACKAGING.

YES	SHORT	UP ON		22.86 [.900]	25.30 [.996]	10	EDSP10SGRFSTR04	6-2319764-0
				17.78 [.700]	20.22 [.796]	08	EDSP08SGRFSTR04	5-2319764-9
				12.70 [.500]	15.14 [.596]	06	EDSP06SGRFSTR04	5-2319764-8
				7.62 [.300]	10.06 [.396]	04	EDSP04SGRFSTR04	5-2319764-7
	DOWN ON			2.54 [.100]	4.98 [.196]	02	EDSP02SGRFSTR04	5-2319764-6
				22.86 [.900]	25.30 [.996]	10	EDSP10SGRNSTR04	5-2319764-5
				17.78 [.700]	20.22 [.796]	08	EDSP08SGRNSTR04	5-2319764-4
				12.70 [.500]	15.14 [.596]	06	EDSP06SGRNSTR04	5-2319764-3
TAPE	ACTUATOR TYPE	ACTUATION PUSH	NOTE	B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER	TE PART NUMBER
				DIM				
THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN 12MAY2017 SHIVAKUMAR S S		 TE Connectivity		
DIMENSIONS: mm[INCHES]		TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK 12MAY2017 ALEXANDER SHARPE				
		0 PLC ± -		APVD 12MAY2017 ALEXANDER SHARPE		NAME PIANO DIP SWITCH END STACKABLE		
		1 PLC ± -		PRODUCT SPEC				
		2 PLC ± 0.20[.008]		—		—		
		3 PLC ± -		APPLICATION SPEC				
		4 PLC ± -		—		SIZE CAGE CODE DRAWING NO RESTRICTED TO		
		ANGLES ± -		—				
MATERIAL		FINISH		WEIGHT		A2 00779 C=2319764		
—		—		CUSTOMER DRAWING		SCALE 1:1 SHEET 4 OF 4 REV A		