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LOCAD

DIST00

REVISED PER ECO-15-004048

DATE16MAR2015

DWNNK

APVD RH

Component name	Base material	Finish
Case	LCP, black, UL94 V-0	
Terminal, wire lug (gold)	Brass	Gold over nickel
Terminal, PC & RA (gold)	Brass	Gold over nickel in contact area, Tin over nickel in solder area
Terminal, PC & wire lug (silver)	Silver clad copper	Silver over nickel
Contact (gold)	Copper alloy or brass	Gold over nickel
Contact (silver)	Silver clad copper or copper	Silver over nickel
Frame	Steel	Tin over copper
Spring	Music wire	
Plunger Button	Nylon 6/6, black, red or blue, UL94 HB	
Guide, CC & FF switches only	Nylon 6/6, white	

Rating	Gold: .4VA max. @ 20VDC or peak AC resistive
	Silver: 1 A @ 125VAC or 28 VDC resistive
Initial termination resistance	20 milliohms max.
Insulation resistance	1,000 Megohms min @ 500 VDC
Dielectric strength	1,000 volts RMS at sea lever
Timing	Break before make
Plunger travel	.030
Actuation force	50 to 400 grams
Life expectancy	.4 VA, 1 pole: 100,000
	.4 VA, 2 poles: 80,000
	1 A, 1 pole: 60,000
	1 A, 2 poles: 50,000
Operating temperature	-30° C to +65° C
Storage temperature	-30° C to +65° C
Terminal seal	Single pole: epoxy
	Double pole: epoxy optional

NOTES:

1

TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON SWITCHES.

2

ALL MATERIALS AND FINISHES COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).

3

CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

4

OBSOLETE.

Model	Poles	Rating	Function	Plating	Terminations	Button color	04
TPA							04
	1	1 = Gold .4VA	C = SPST momentary	G = Gold	Blank = Wire lug	0 = Black	
	2 (1+1)	3 = Silver 1 Amp	F = SPDT momentary	Blank = Silver	PC = printed circuit	2 = Red	
			M = DPST momentary		RA = right angle	6 = Blue	
			R = DPDT momentary				

Notes:
1. Silver only available in wire lug and pc terminations

TE P/N	Alco P/N	Poles	Throws	Plating	Terminals	Button Color	Function		Connected Terminals	
1825096-1	TPA11CGPC004	1	1	Gold	PC	Black		Mom	Off	1-3
41825096-2	TPA11CGPC204	1	1	Gold	PC	Red		Mom	Off	1-3
41825096-3	TPA11CGPC604	1	1	Gold	PC	Blue		Mom	Off	1-3
1825096-4	TPA11CGRA004	1	1	Gold	Right Angle	Black		Mom	Off	1-3
1825096-5	TPA11CGRA204	1	1	Gold	Right Angle	Red		Mom	Off	1-3
41825096-6	TPA11CGRA604	1	1	Gold	Right Angle	Blue		Mom	Off	1-3
1825096-7	TPA11FGPC004	1	2	Gold	PC	Black		Mom	1-2	2-3
41825096-8	TPA11FGPC204	1	2	Gold	PC	Red		Mom	1-2	2-3
41825096-9	TPA11FGPC604	1	2	Gold	PC	Blue		Mom	1-2	2-3
1-1825096-0	TPA11FGRA004	1	2	Gold	Right Angle	Black		Mom	1-2	2-3
41-1825096-1	TPA11FGRA204	1	2	Gold	Right Angle	Red		Mom	1-2	2-3
41-1825096-2	TPA11FGRA604	1	2	Gold	Right Angle	Blue		Mom	1-2	2-3
41-1825096-3	TPA21CCGPC004	2 (1+1)	1	Gold	PC	Black		Mom	Off	1-3, 4-6
1-1825096-4	TPA21CCGRA004	2 (1+1)	1	Gold	Right Angle	Black		Mom	Off	1-3, 4-6
41-1825096-5	TPA21FFGRA204	2 (1+1)	2	Gold	Right Angle	Red		Mom	1-2, 4-5	2-3, 5-6
41-1825096-6	TPA21MGRA004	2	1	Gold	Right Angle	Black		Mom	Off	1-3, 4-6

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DIMENSIONS: INCHES

MATERIAL-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .010

4 PLC ± -

ANGLES ± -

FINISH-

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DWNNM.BINNER01SEP05

CHKM.ZITTO21JUL05

APVDM.ZITTO21JUL05

PRODUCT SPEC

APPLICATION SPEC

WEIGHT-

CUSTOMER DRAWING

TE Connectivity

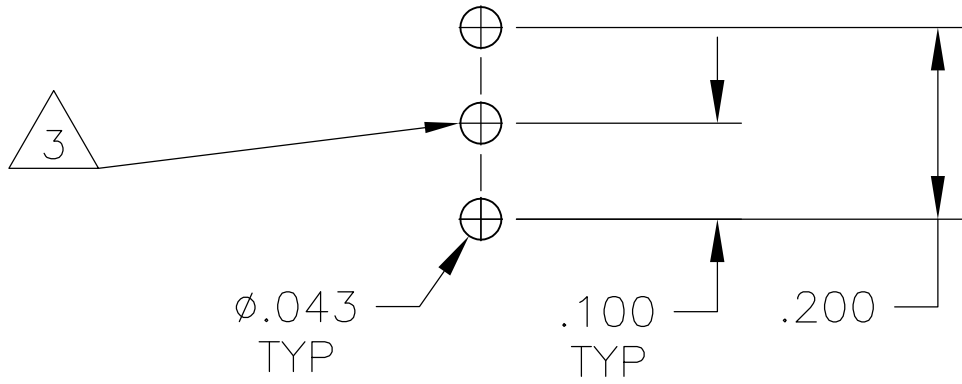
PUSHBUTTON SWITCH, TPA SERIES

SIZEA1CAGE CODE00779DRAWING NO1825096RESTRICTED TO-

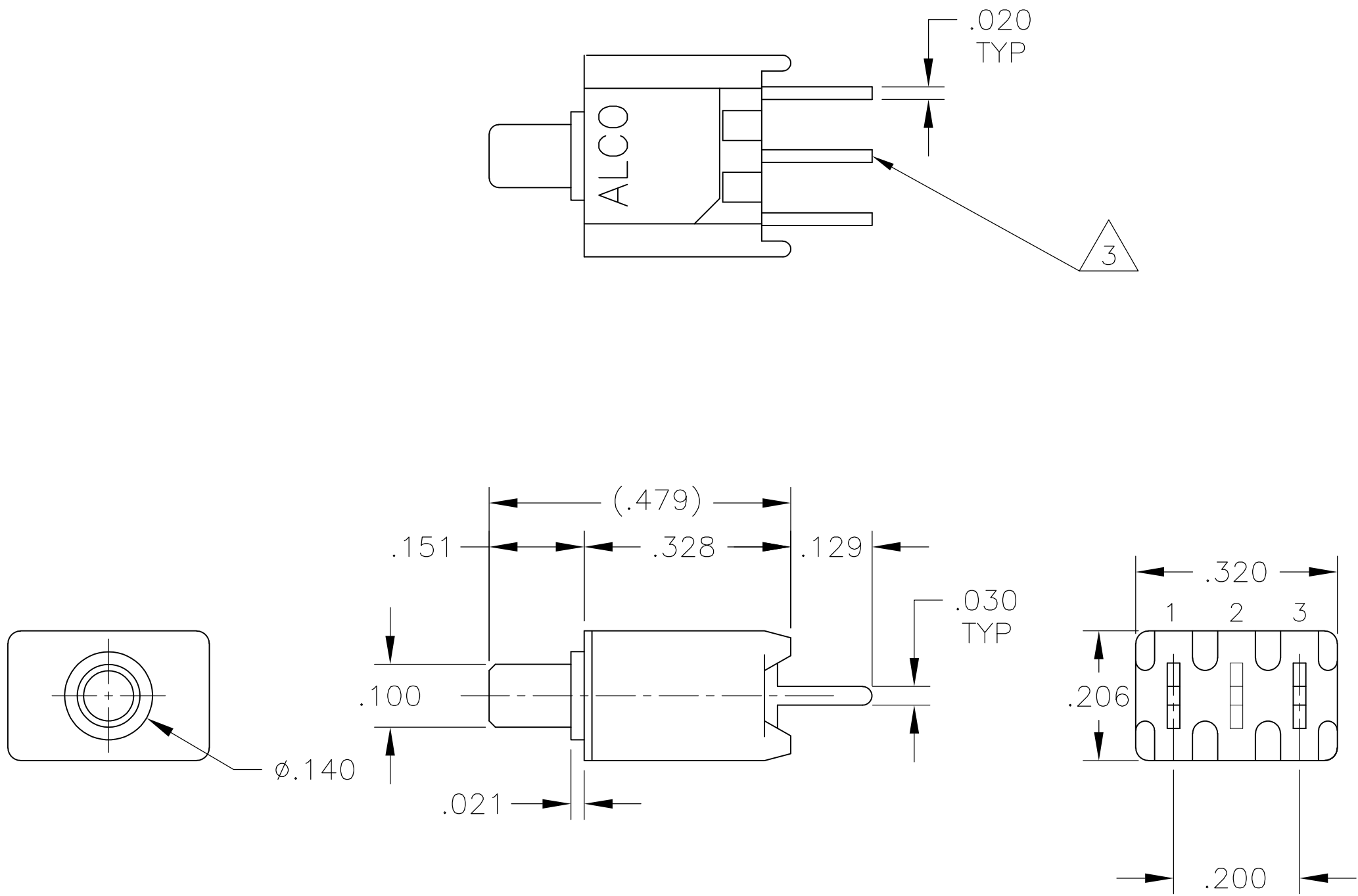
SCALE4:1SHEET1OF4REV A2

4805 (3/11)

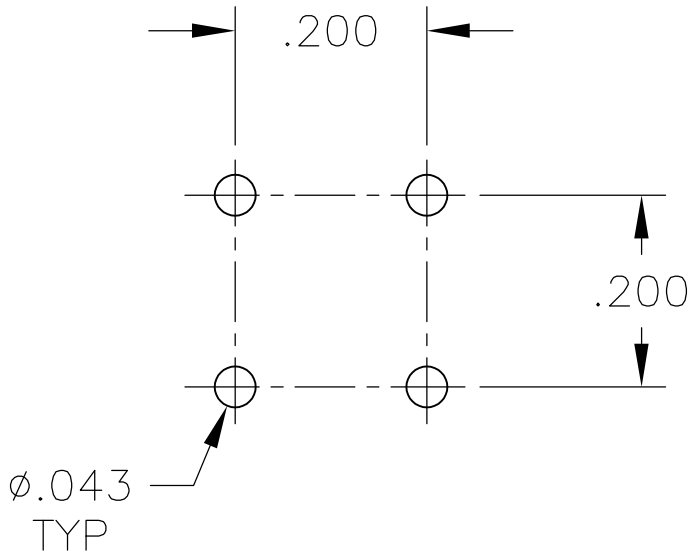
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AD	—	P	LTR	DESCRIPTION	DATE	DWN
		—	—	SEE SHEET 1	—	—



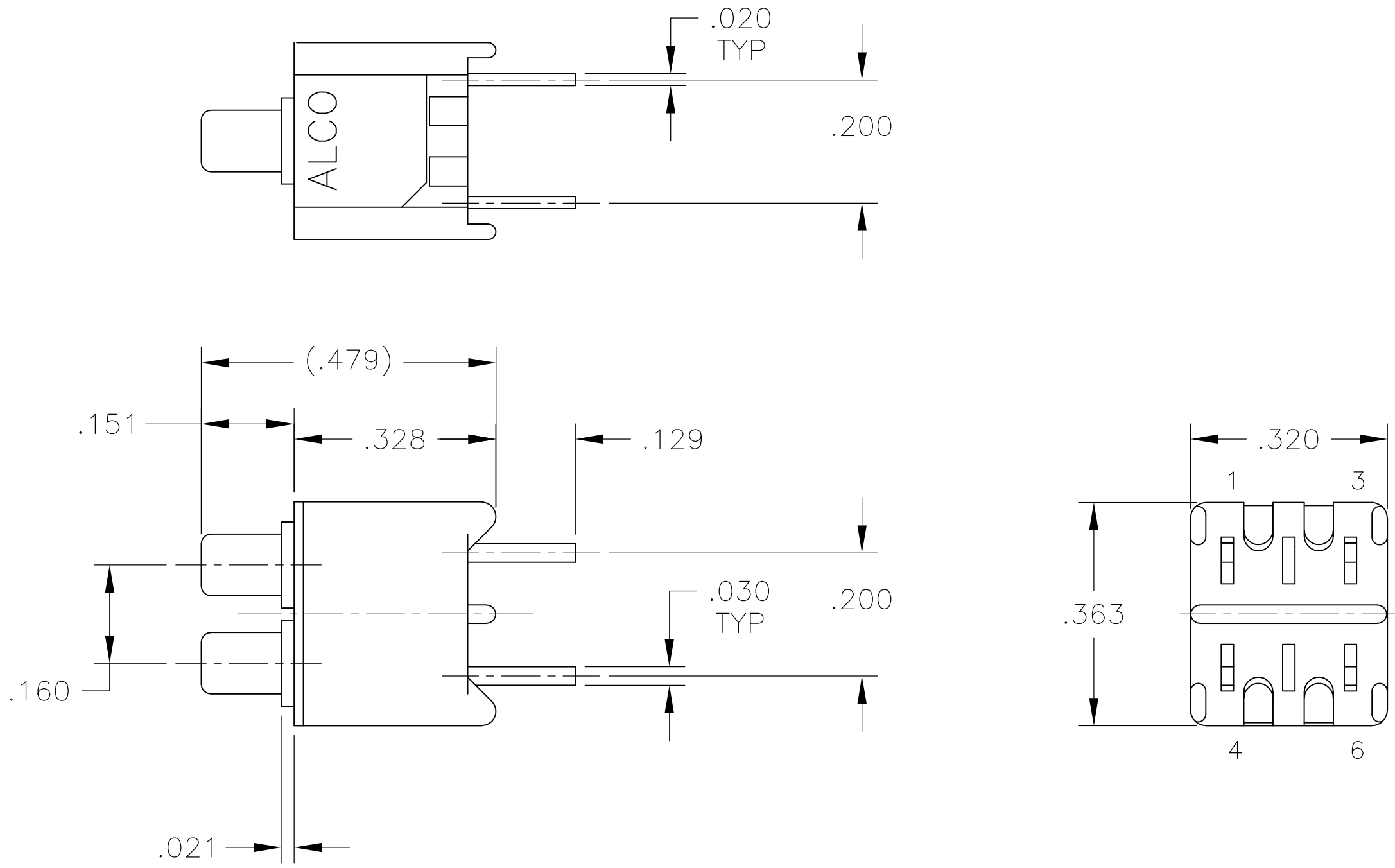
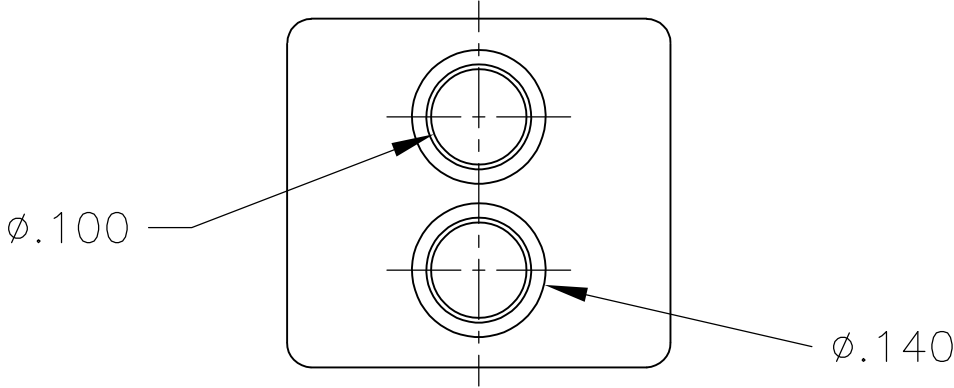
PCB HOLE LAYOUT



TPA11CGPC
TPA11FGPC



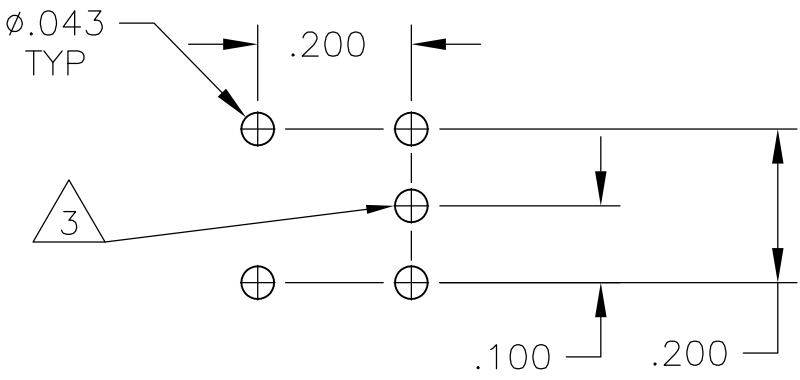
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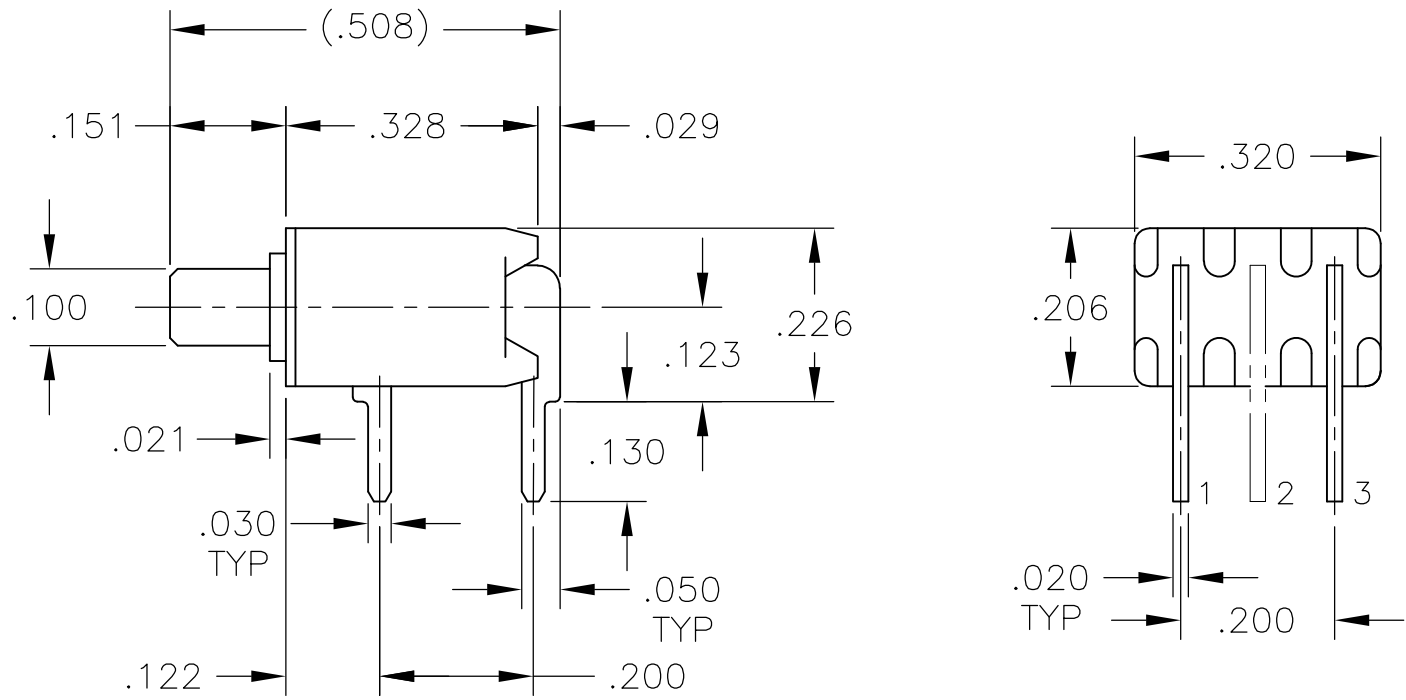
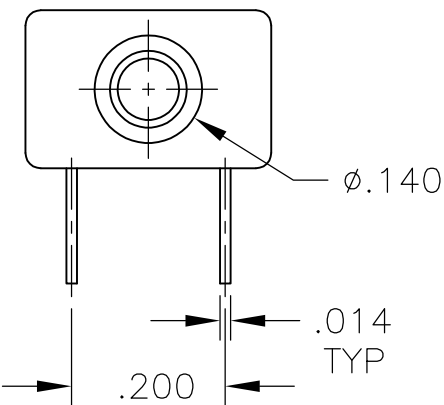
TPA21CCGPC

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. BINNER	01SEP05	 TE Connectivity	
		CHK M. ZITTO	21JUL05		
DIMENSIONS: INCHES		APPROD M. ZITTO	21JUL05	NAME	
		PRODUCT SPEC		PUSHBUTTON SWITCH, TPA SERIES	
		APPLICATION SPEC			
		—			
0 P.L.C ± — 1 P.L.C ± — 2 P.L.C ± — 3 P.L.C ± .010 4 P.L.C ± — ANGLES ± — FINISH —		WEIGHT —		SIZE CAGE CODE DRAWING NO A1 00779 C 1825096	
MATERIAL —		CUSTOMER DRAWING		RESTRICTED TO —	
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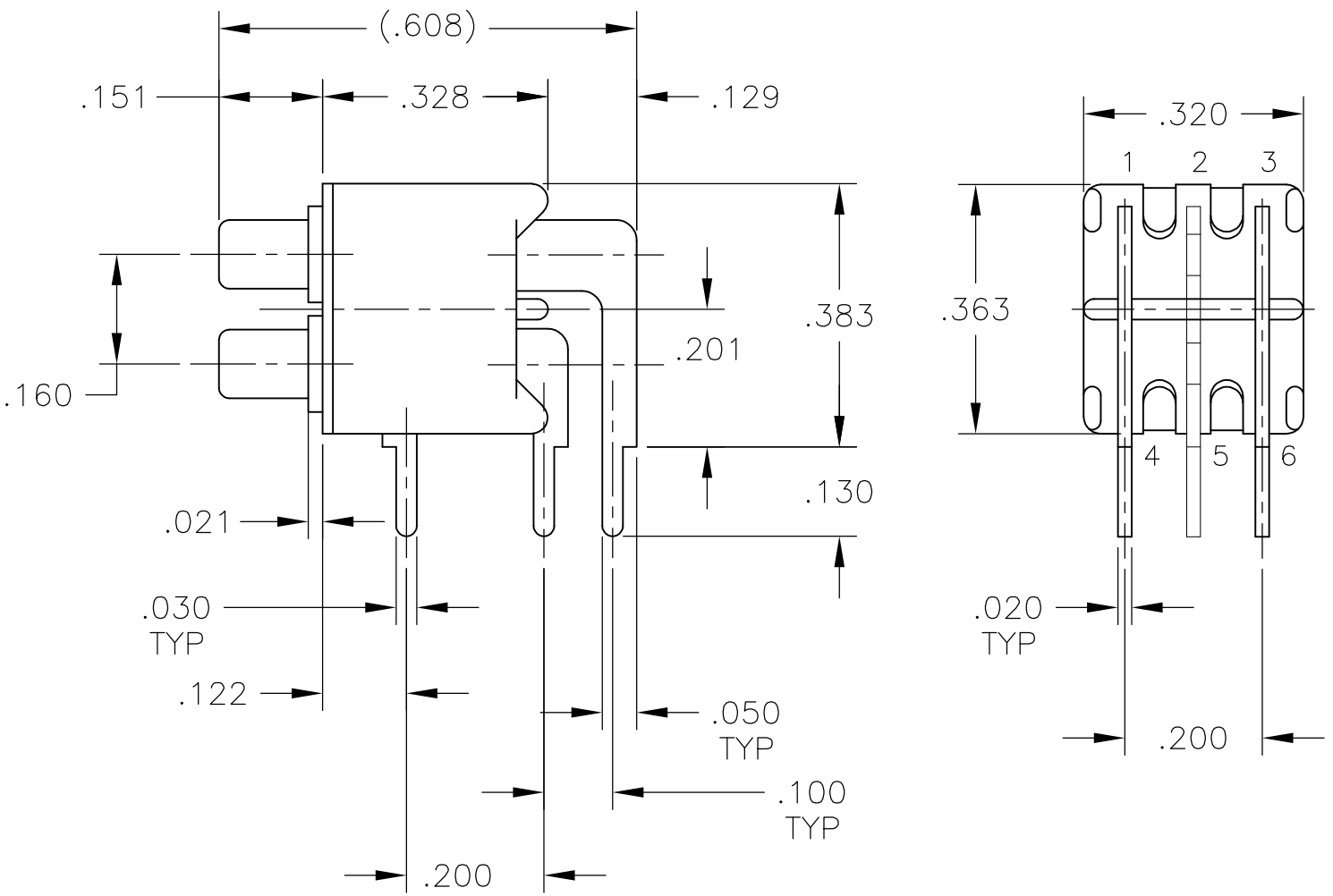
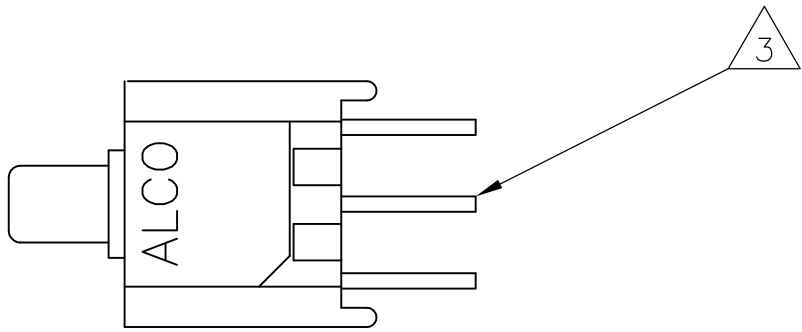
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PCB HOLE LAYOUT



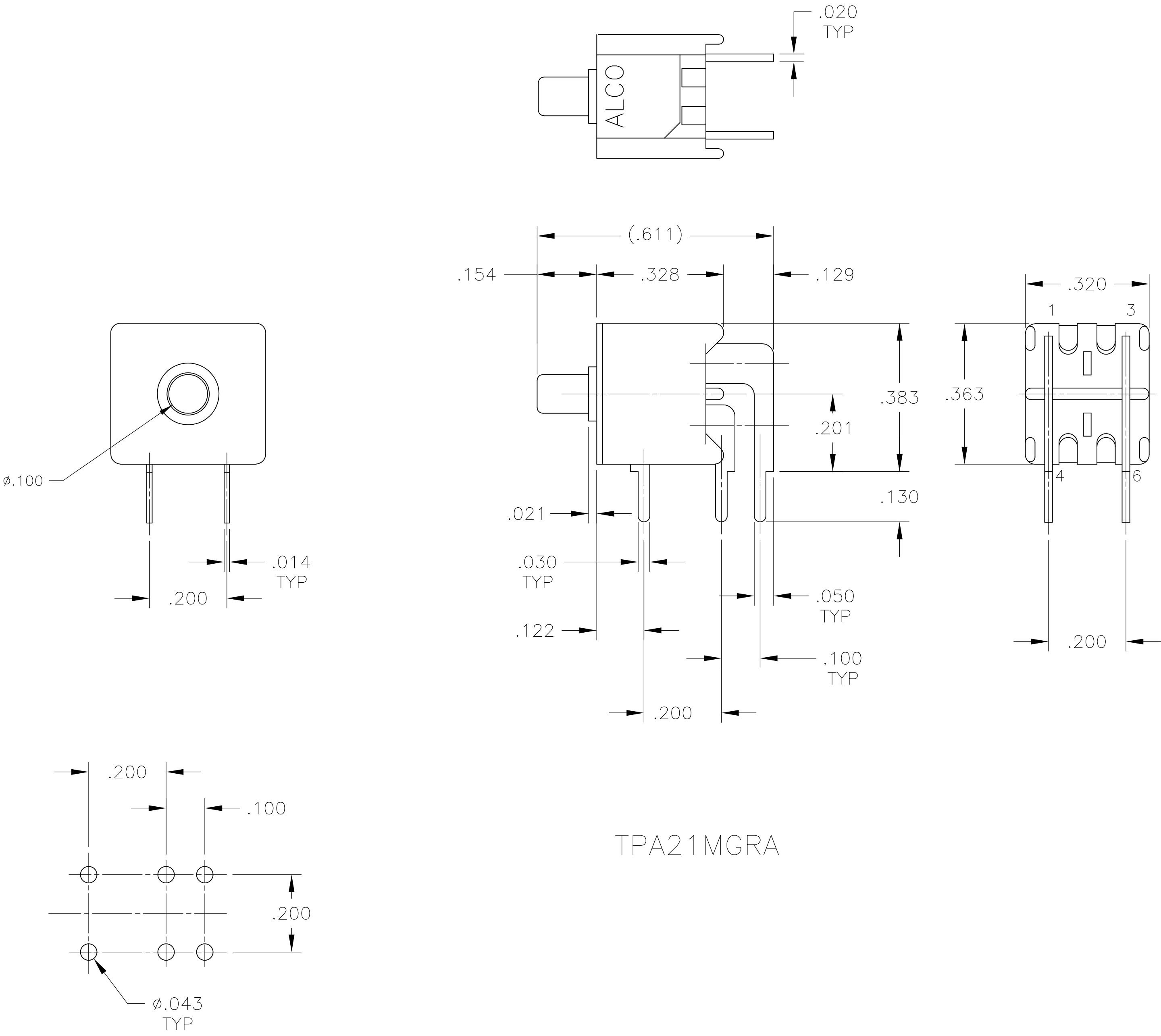
TPA11CGRA
TPA11FGRA



TPA21CCGRA
TPA21FFGRA

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		CHK M. ZITTO	21JUL05			
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	AP'D M. ZITTO	21JUL05	NAME		
		PRODUCT SPEC		PUSHBUTTON SWITCH, TPA SERIES		
	0. PLC ± . 1. PLC ± . 2. PLC ± . 3. PLC ± .010 4. PLC ± . ANGLES ± . FINISH	APPLICATION SPEC		SIZE		
		—		CAGE CODE		
MATERIAL		WEIGHT		DRAWING NO		
—		—		A1 00779		
		CUSTOMER DRAWING		RESTRICTED TO		
				SCALE 4:1		
				SHEET 3 OF 4		
				REV A2		

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
AD	—	—	—	SEE SHEET 1	—	—



TPA21MGRA

PCB HOLE LAYOUT

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		CHK M. ZITTO	21JUL05		
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	AP'D M. ZITTO	21JUL05	NAME	
		PRODUCT SPEC		PUSHBUTTON SWITCH, TPA SERIES	
	0. PLC ± .010 1. PLC ± .010 2. PLC ± .010 3. PLC ± .010 4. PLC ± .010 ANGLES ± .010	APPLICATION SPEC		SIZE	
		—		CAGE CODE	
MATERIAL	FINISH	WEIGHT	—	DRAWING NO	
—	—	—	—	A1 00779 1825096	
CUSTOMER DRAWING			SCALE	4:1	SHEET 4 OF 4
			REV A2		

Mouser Electronics

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