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LOCAD

DIST00

REVISED

PER

ECO-15-004048

DATE

16MAR2015

DWN

NK

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		Off	Mom	Off	1-3
41825096-2	TPA11CGPC204	1	1	Gold	PC	Red		Off	Mom	Off	1-3
41825096-3	TPA11CGPC604	1	1	Gold	PC	Blue		Off	Mom	Off	1-3
1825096-4	TPA11CGRA004	1	1	Gold	Right Angle	Black		Off	Mom	Off	1-3
1825096-5	TPA11CGRA204	1	1	Gold	Right Angle	Red		Off	Mom	Off	1-3
41825096-6	TPA11CGRA604	1	1	Gold	Right Angle	Blue		Off	Mom	Off	1-3
1825096-7	TPA11FGPC004	1	2	Gold	PC	Black		On	Mom	1-2	2-3
41825096-8	TPA11FGPC204	1	2	Gold	PC	Red		On	Mom	1-2	2-3
41825096-9	TPA11FGPC604	1	2	Gold	PC	Blue		On	Mom	1-2	2-3
1-1825096-0	TPA11FGRA004	1	2	Gold	Right Angle	Black		On	Mom	1-2	2-3
41-1825096-1	TPA11FGRA204	1	2	Gold	Right Angle	Red		On	Mom	1-2	2-3
41-1825096-2	TPA11FGRA604	1	2	Gold	Right Angle	Blue		On	Mom	1-2	2-3
41-1825096-3	TPA21CCGPC004	2 (1+1)	1	Gold	PC	Black		Off	Mom	Off	1-3, 4-6
1-1825096-4	TPA21CCGRA004	2 (1+1)	1	Gold	Right Angle	Black		Off	Mom	Off	1-3, 4-6
41-1825096-5	TPA21FFGRA204	2 (1+1)	2	Gold	Right Angle	Red		On	Mom	1-2, 4-5	2-3, 5-6
41-1825096-6	TPA21MGRA004	2	1	Gold	Right Angle	Black		Off	Mom	Off	1-3, 4-6

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± .

1 PLC ± .

2 PLC ± .

3 PLC ± .010

4 PLC ± .

ANGLES ± .

MATERIAL -

FINISH -

DWN M.BINNER 01SEP05

CHK M.ZITTO 21JUL05

APP'D M.ZITTO 21JUL05

PRODUCT SPEC

APPLICATION SPEC

WEIGHT -

TE Connectivity

PUSHBUTTON SWITCH, TPA SERIES

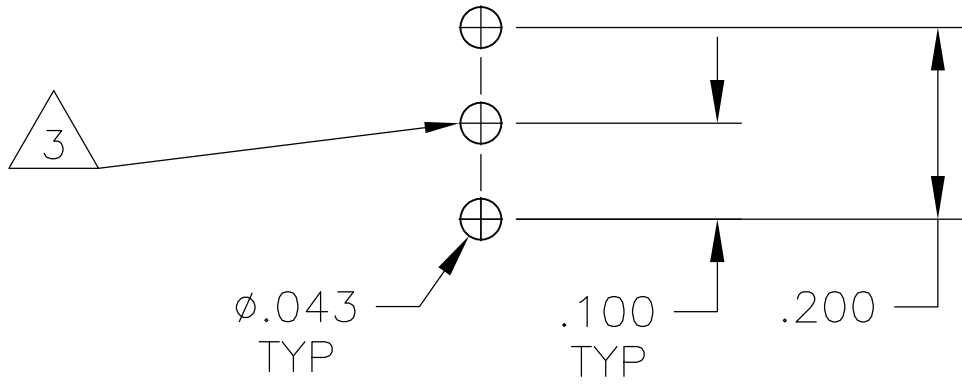
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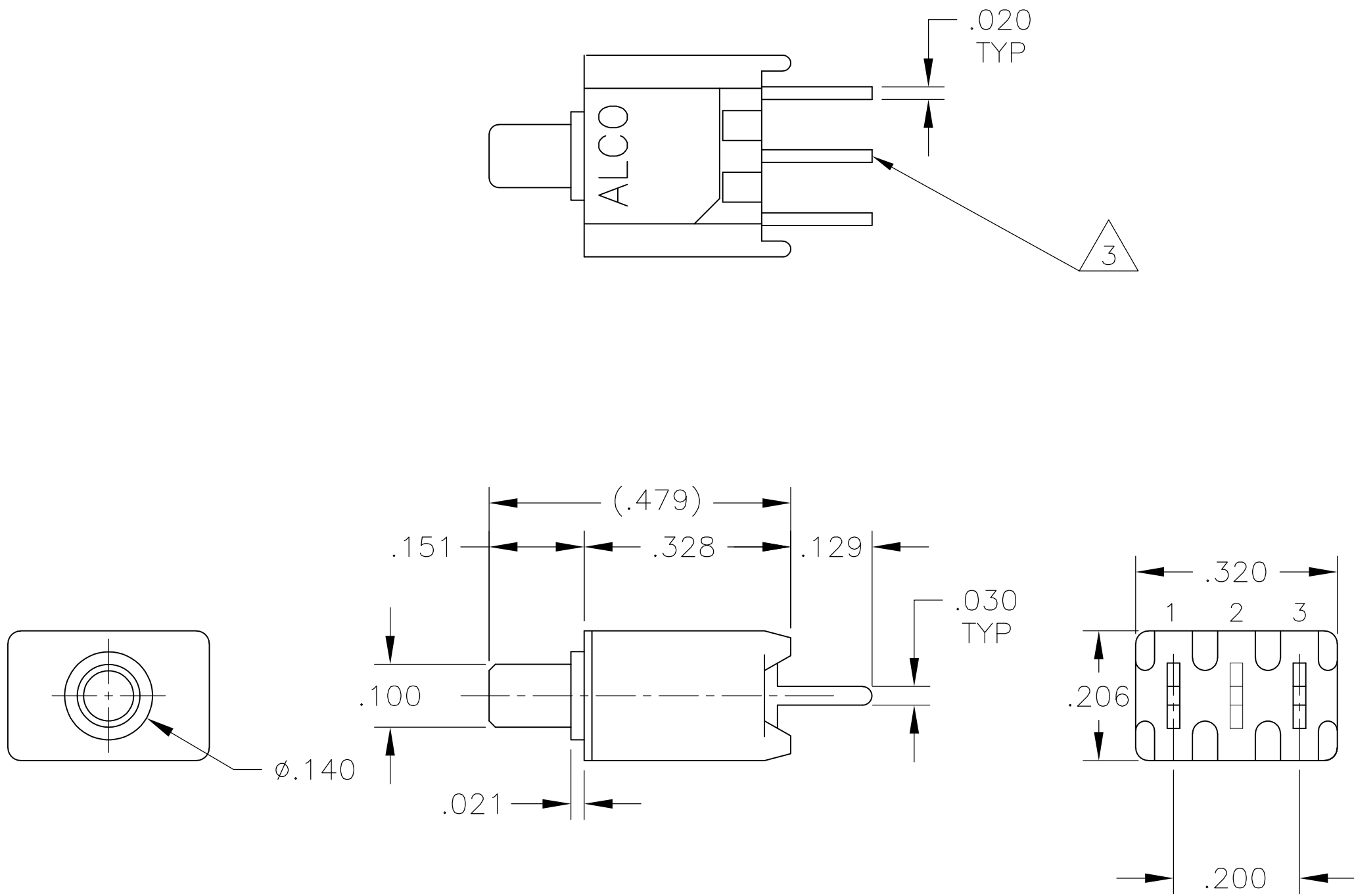
CUSTOMER DRAWING SCALE 4:1 SHEET 1 OF 4 REV A2

4805 (3/11)

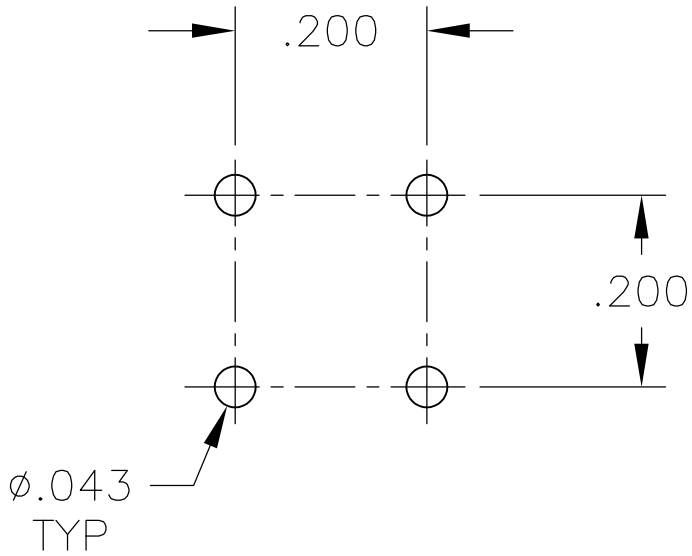
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AD	—	P	LTR	DESCRIPTION	DATE	DWN
		—	—	SEE SHEET 1	—	—



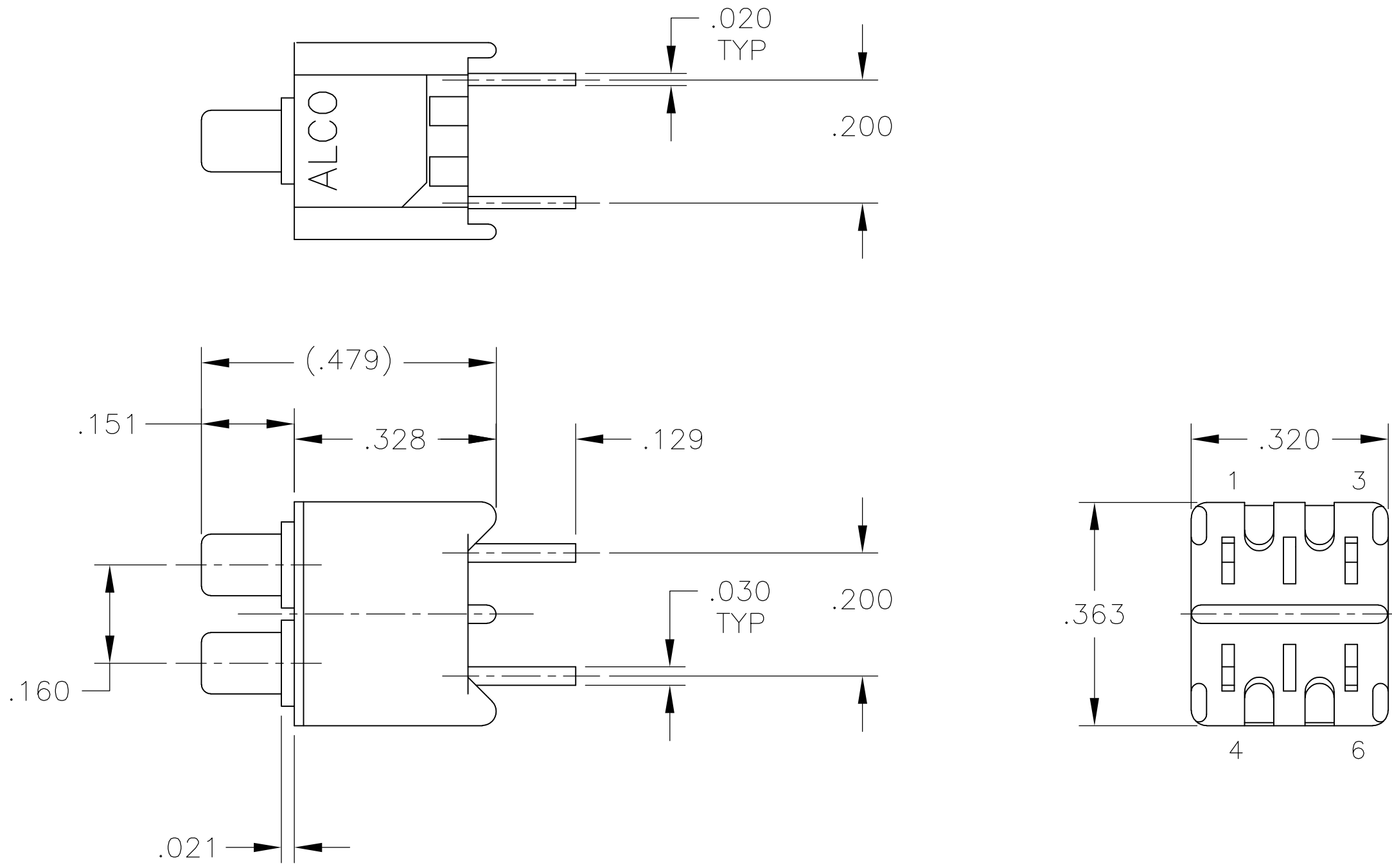
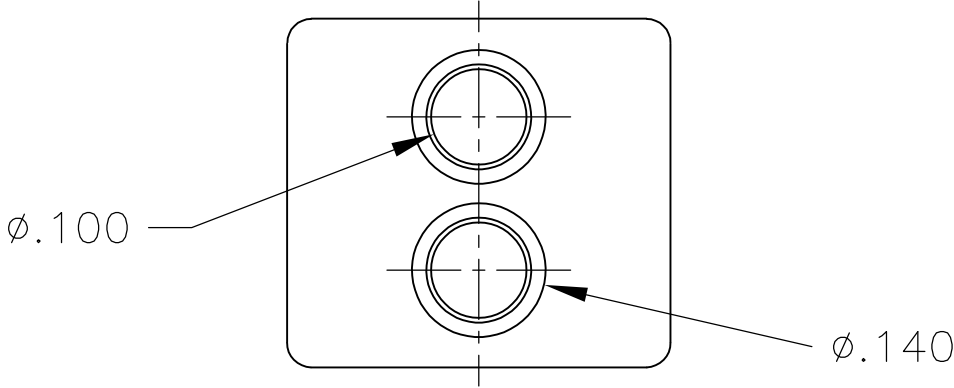
PCB HOLE LAYOUT



TPA11CGPC
TPA11FGPC



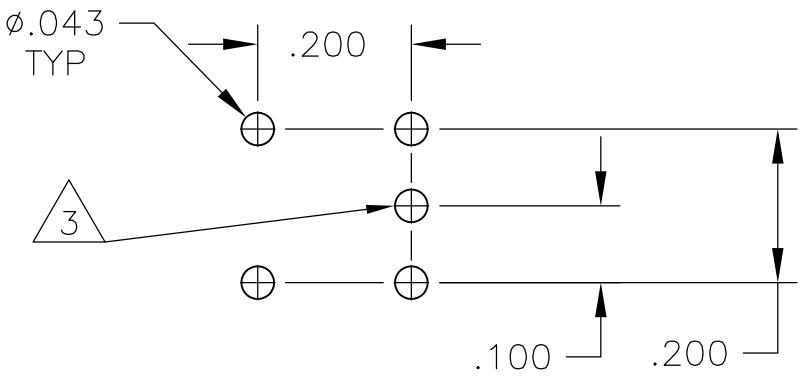
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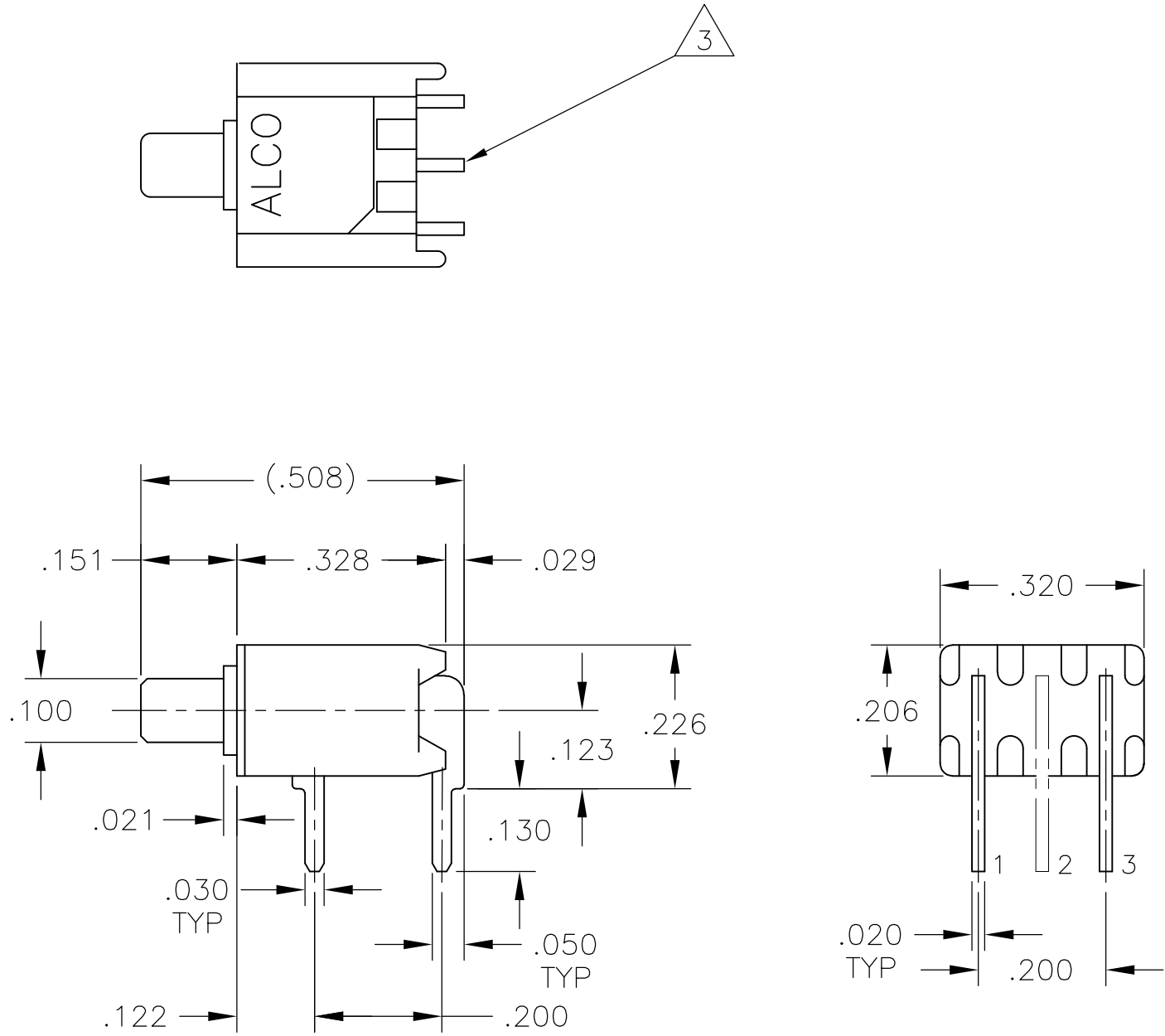
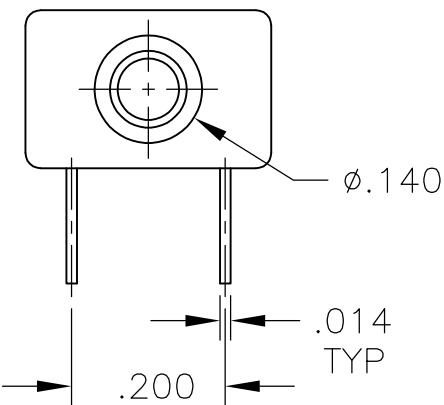
TPA21CCGPC

THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN M. BINNER	01SEP05	 TE Connectivity						
DIMENSIONS: INCHES			CHK M. ZITTO	21JUL05							
			APPRO M. ZITTO	21JUL05	NAME	PUSHBUTTON SWITCH, TPA SERIES					
			PRODUCT SPEC								
MATERIAL —			APPLICATION SPEC			SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO		
			WEIGHT —			A1	00779	 1825096	—		
TOLERANCES UNLESS OTHERWISE SPECIFIED:			CUSTOMER DRAWING			SCALE	4:1	SHEET	2 OF 4	REV	A2
0. PLC ± —											
1. PLC ± —											
2. PLC ± —											
3. PLC ± .010											
4. PLC ± —											
ANGLES ± —											
FINISH —											

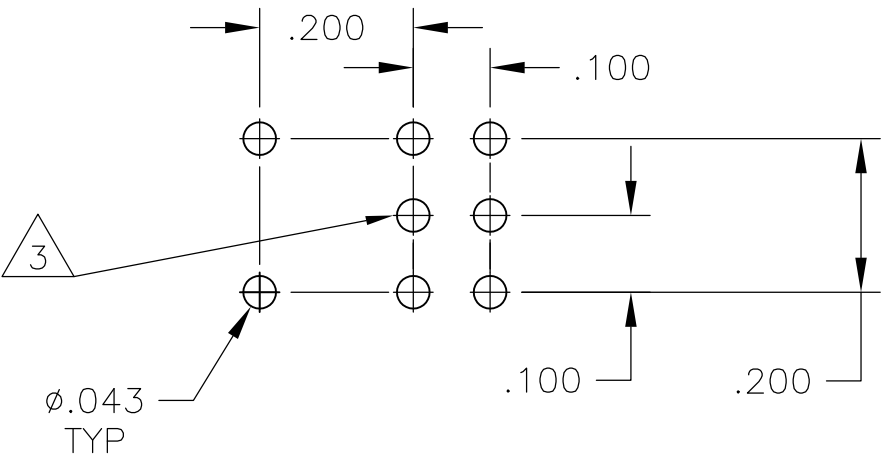
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AD	—	P	LTR	DESCRIPTION	DATE	DWN
		—	—	SEE SHEET 1	—	—



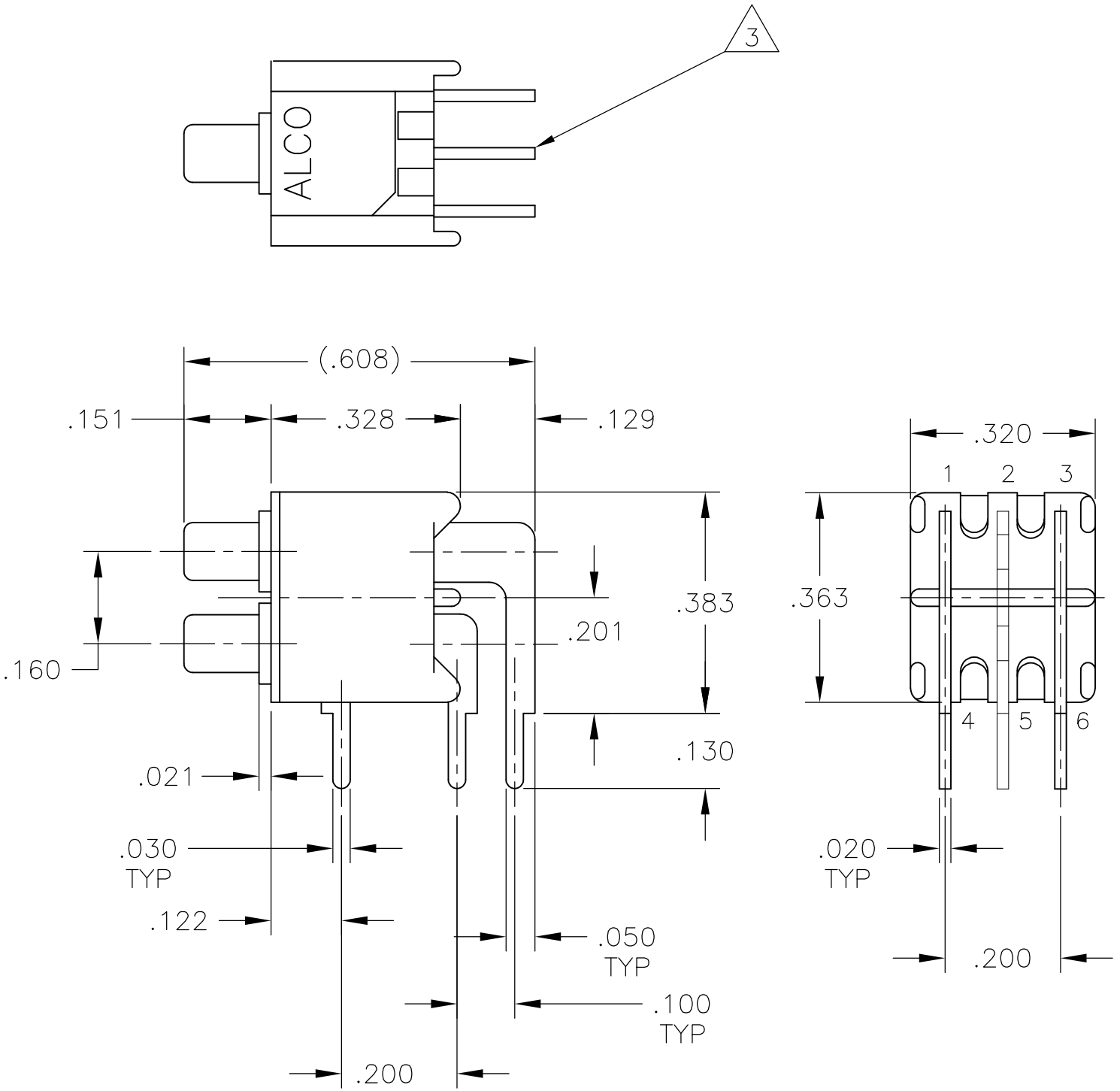
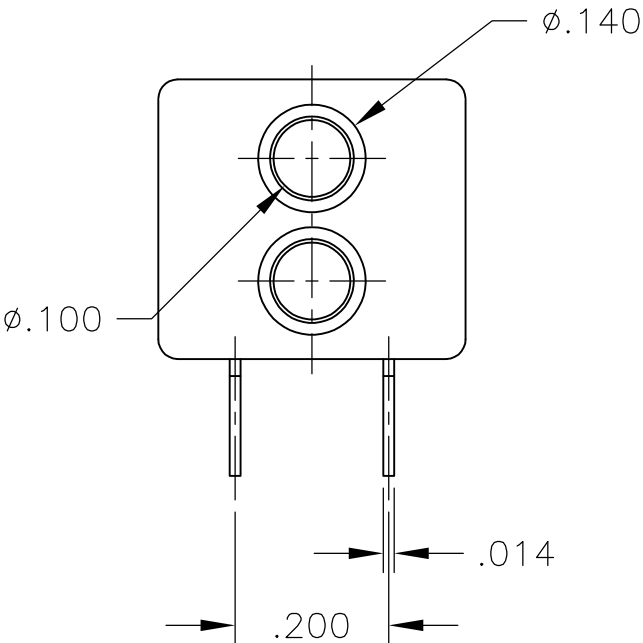
PCB HOLE LAYOUT



TPA11CGRA
TPA11FGRA



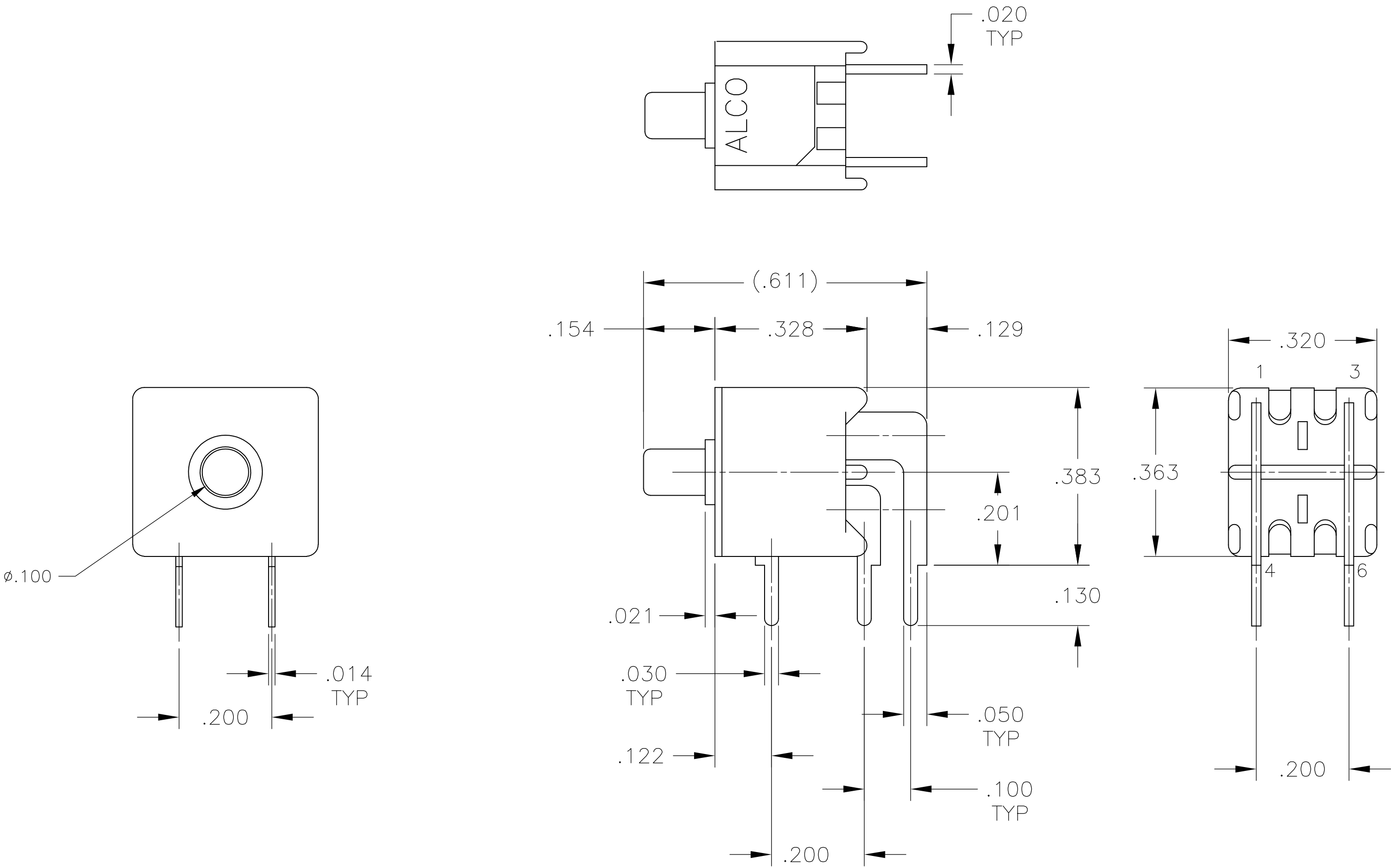
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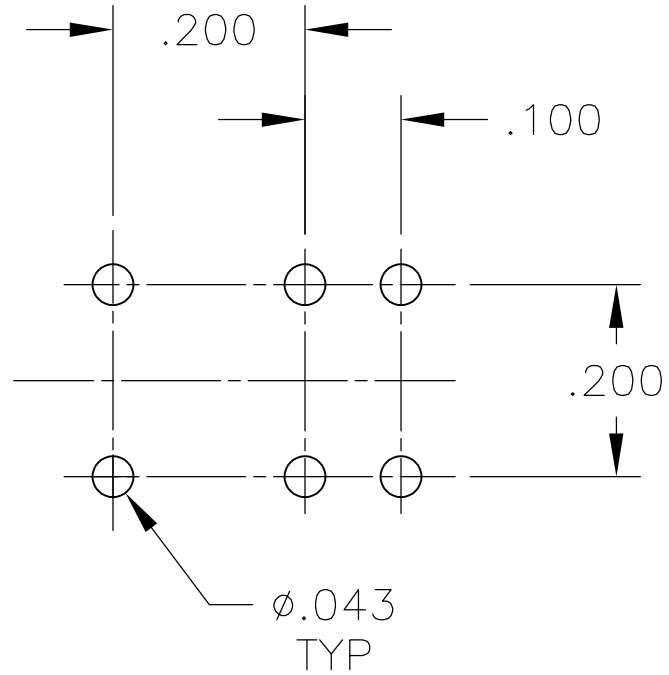
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TPA21FFGRA

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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 ± .010 1. PLC ± .010 2. PLC ± .010 3. PLC ± .010 4. PLC ± .010 ANGLES ± .010 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	APVD
AD	—		—	SEE SHEET 1	—	—	—



TPA21MGRA



PCB HOLE LAYOUT

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. BINNER	01SEP05	TE Connectivity	
		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		RESTRICTED TO	
CUSTOMER DRAWING			SCALE 4:1	SHEET 4	OF 4
			REV A2		

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