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LOCAD

DIST00

REVISED PER ECO-11-004917

11MAR11

RK

HMR

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.

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

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
1825096-2	TPA11CGPC204	1	1	Gold	PC	Red		Mom	Off	1-3
1825096-3	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
1825096-6	TPA11CGRA604	1	1	Gold	Right Angle	Blue		Mom	Off	1-3
1825096-7	TPA11FGPC004	1	2	Gold	PC	Black		Mom	1-2	2-3
1825096-8	TPA11FGPC204	1	2	Gold	PC	Red		Mom	1-2	2-3
1825096-9	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
1-1825096-1	TPA11FGRA204	1	2	Gold	Right Angle	Red		Mom	1-2	2-3
1-1825096-2	TPA11FGRA604	1	2	Gold	Right Angle	Blue		Mom	1-2	2-3
1-1825096-3	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
1-1825096-5	TPA21FFGRA204	2 (1+1)	2	Gold	Right Angle	Red		Mom	1-2, 4-5	2-3, 5-6
1-1825096-6	TPA21MGRA004	2	1	Gold	Right Angle	Black		Mom	Off	1-3, 4-6

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

MATERIAL -

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± .

1 PLC ± .

2 PLC ± .

3 PLC ± .010

4 PLC ± .

ANGLES ± .

FINISH -

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIVISION M. BINNER

CHK M. ZITTO

APPROVED M. ZITTO

PRODUCT SPEC

APPLICATION SPEC

WEIGHT -

CUSTOMER DRAWING

01SEP05

21JUL05

21JUL05

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

SCALE 4:1

SHEET 1 OF 4

REV

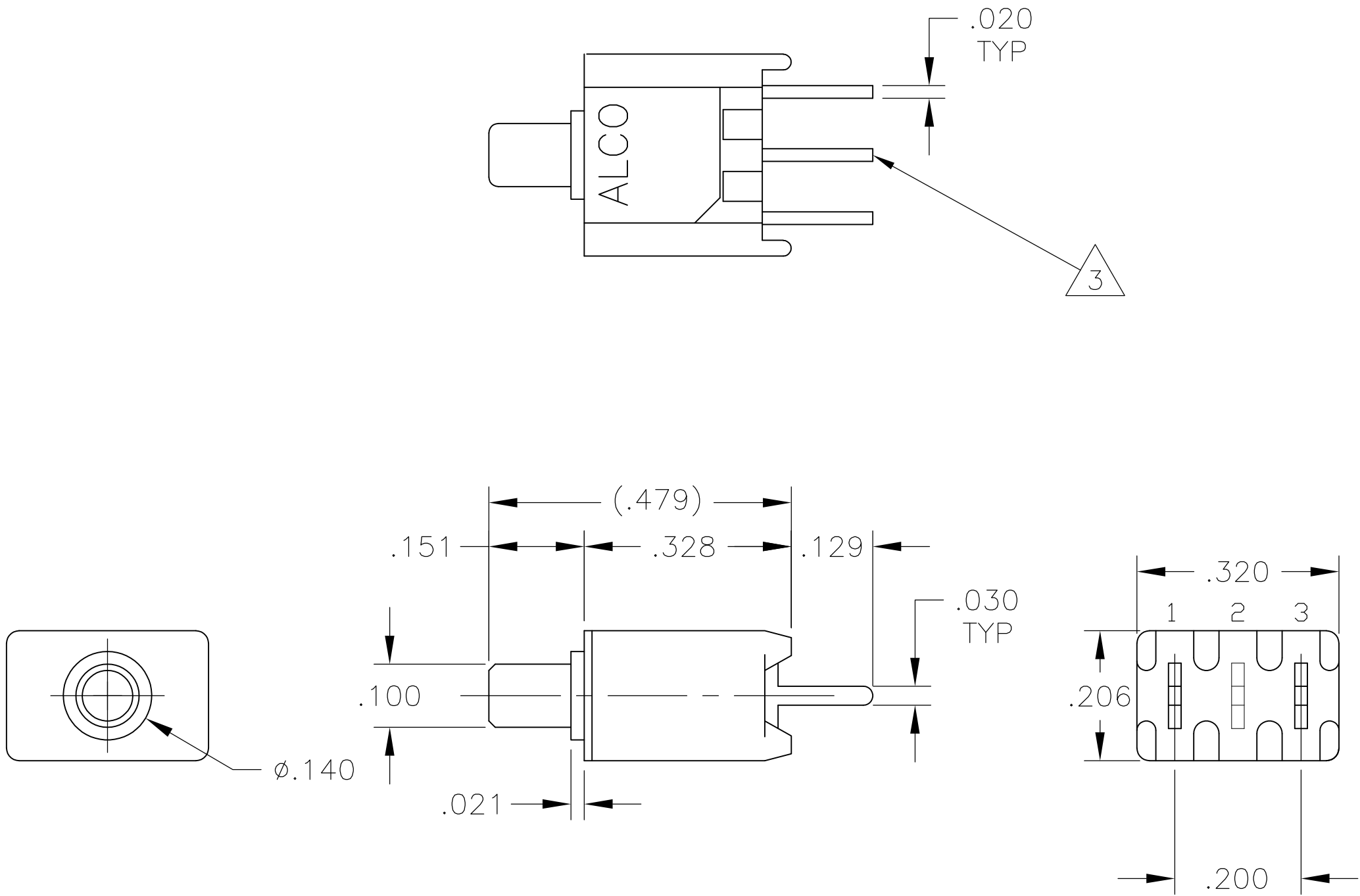
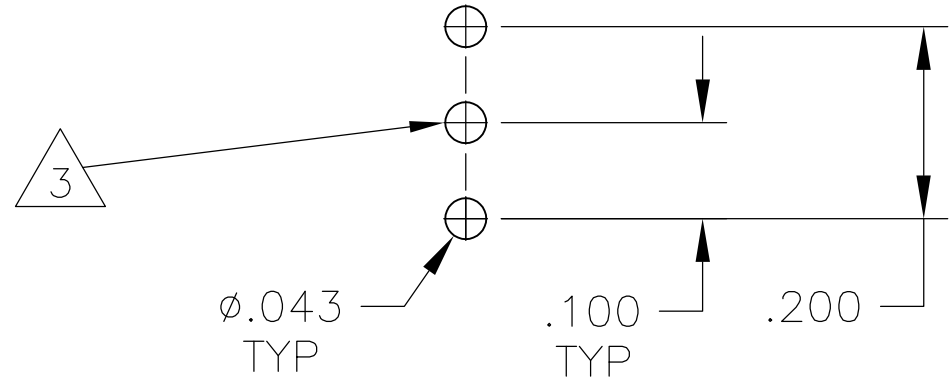
TE Connectivity

PUSHBUTTON SWITCH, TPA SERIES

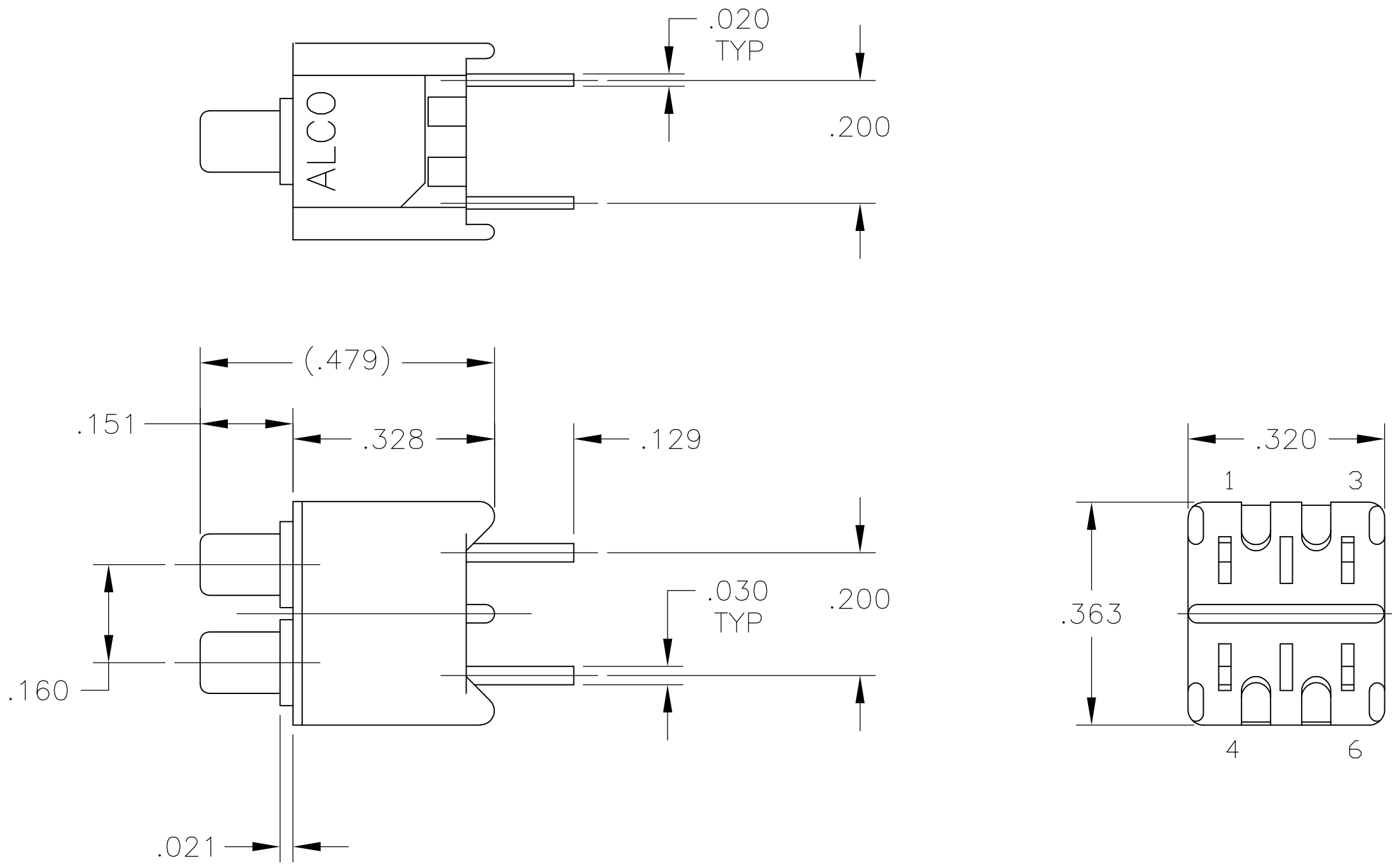
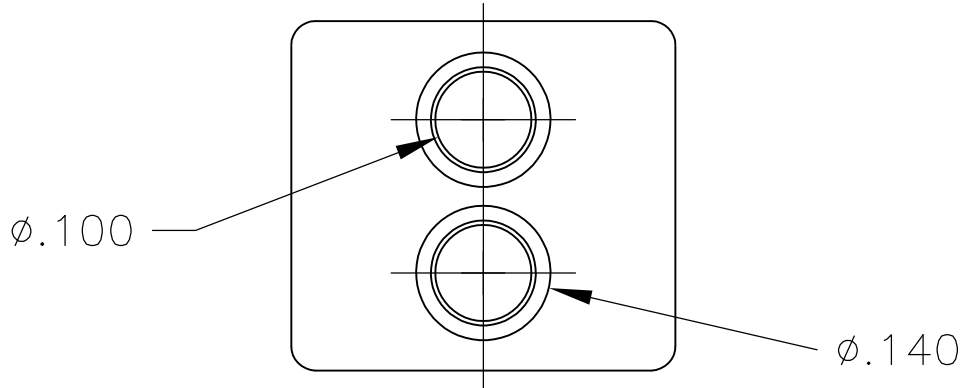
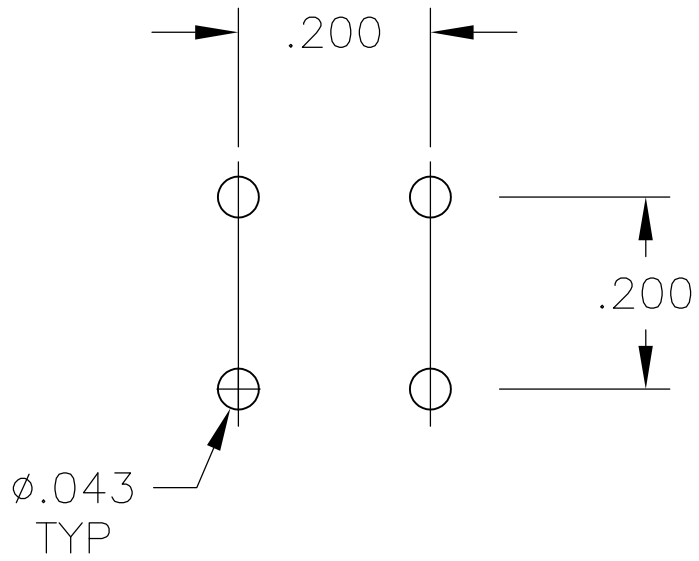
A1007791825096

4805 (3/11)

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



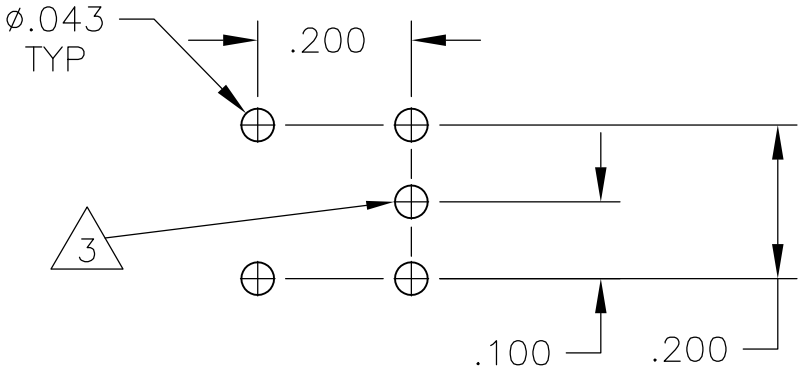
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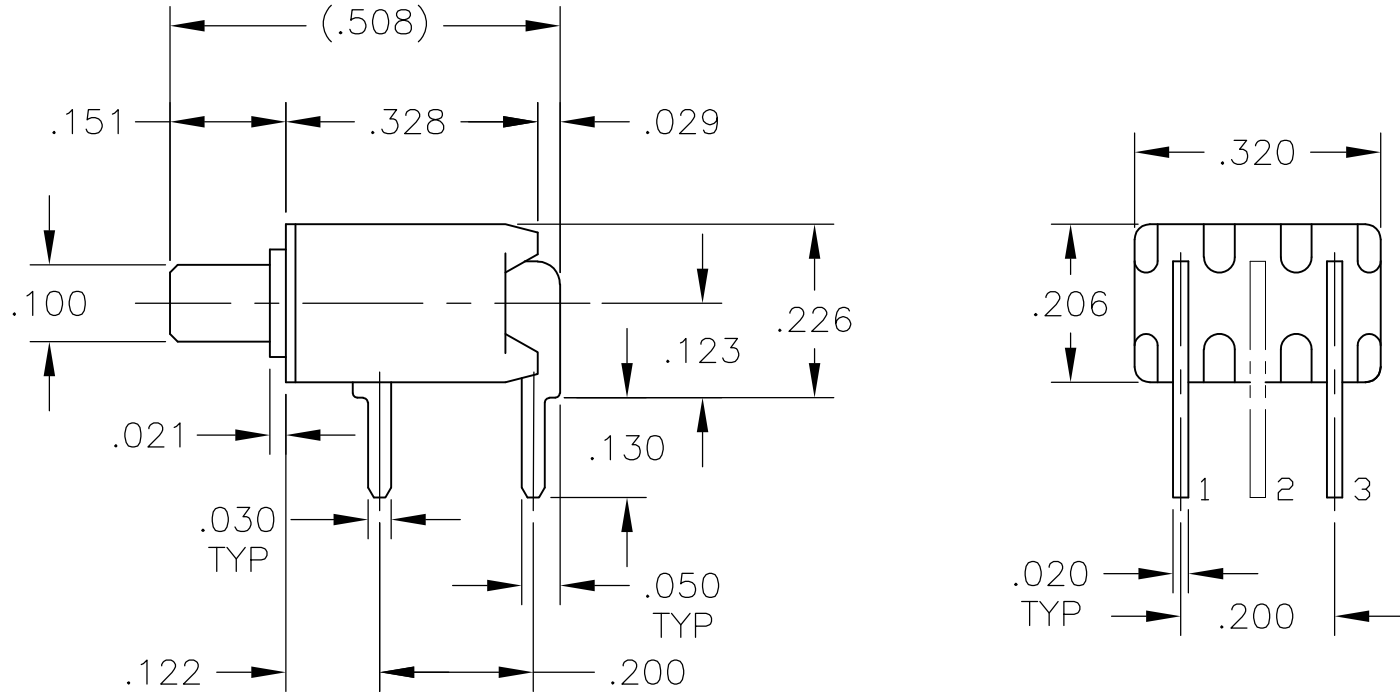
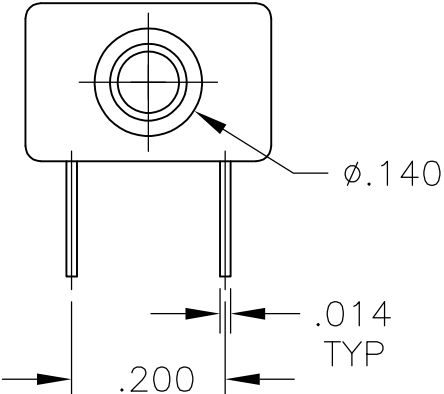
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THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. BINNER	01SEP05	 TE Connectivity	
		CHK M. ZITTO	21JUL05		
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		PRODUCT SPEC		PUSHBUTTON SWITCH, TPA SERIES	
	0. PLC ± .010 1. PLC ± .010 2. PLC ± .010 3. PLC ± .010 4. PLC ± .010 ANGLES ± .010	APPLICATION SPEC		RESTRICTED TO	
		WEIGHT		—	
		MATERIAL		—	
		FINISH		—	
		CUSTOMER DRAWING		SCALE	
		A1 00779 © 1825096		4:1 2 OF 4	
				REV A1	

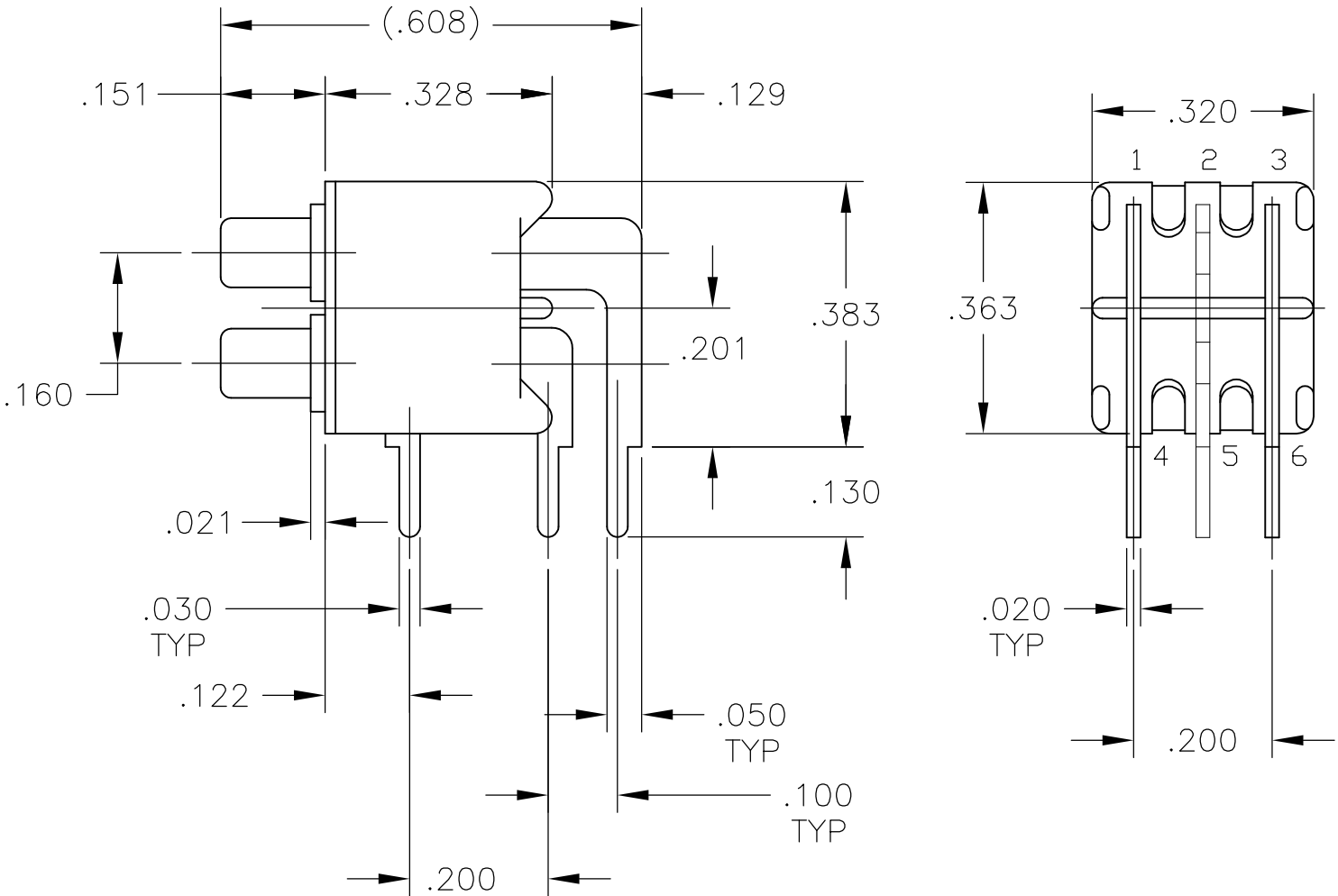
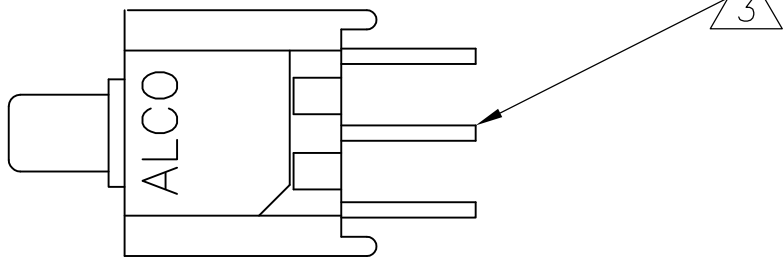
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		P	LTR	DESCRIPTION	DATE	DWN
AD	—	—	—	SEE SHEET 1	—	—



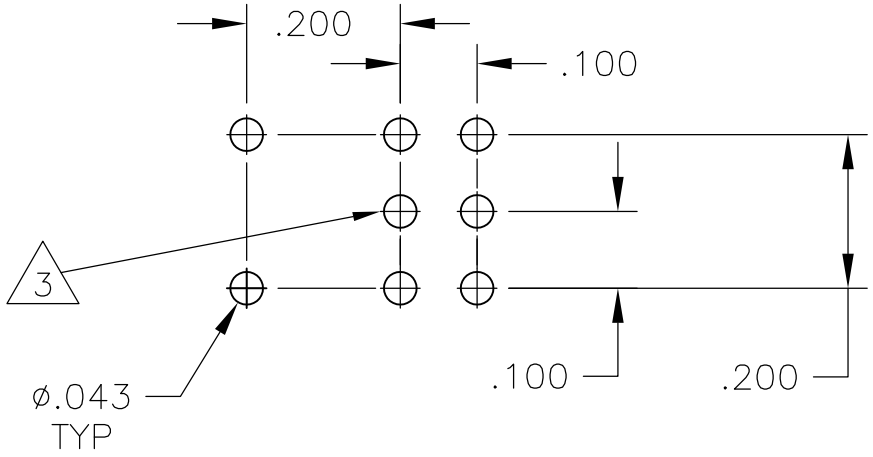
PCB HOLE LAYOUT



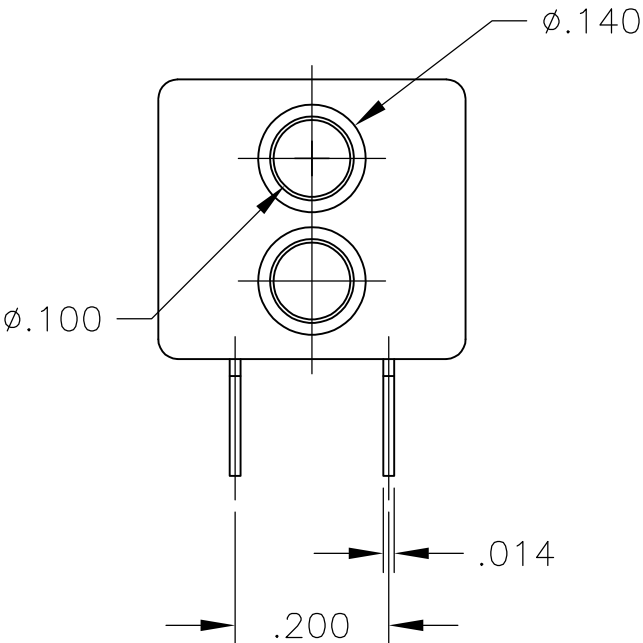
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TPA11FGRA



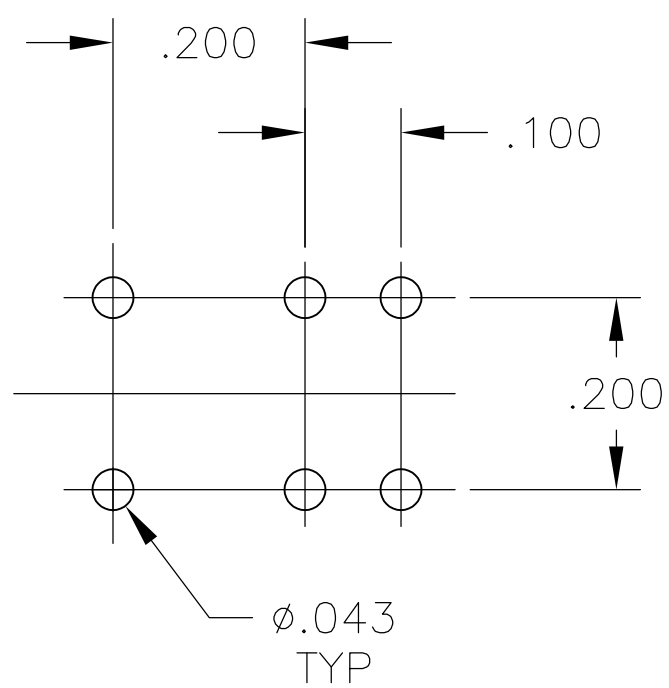
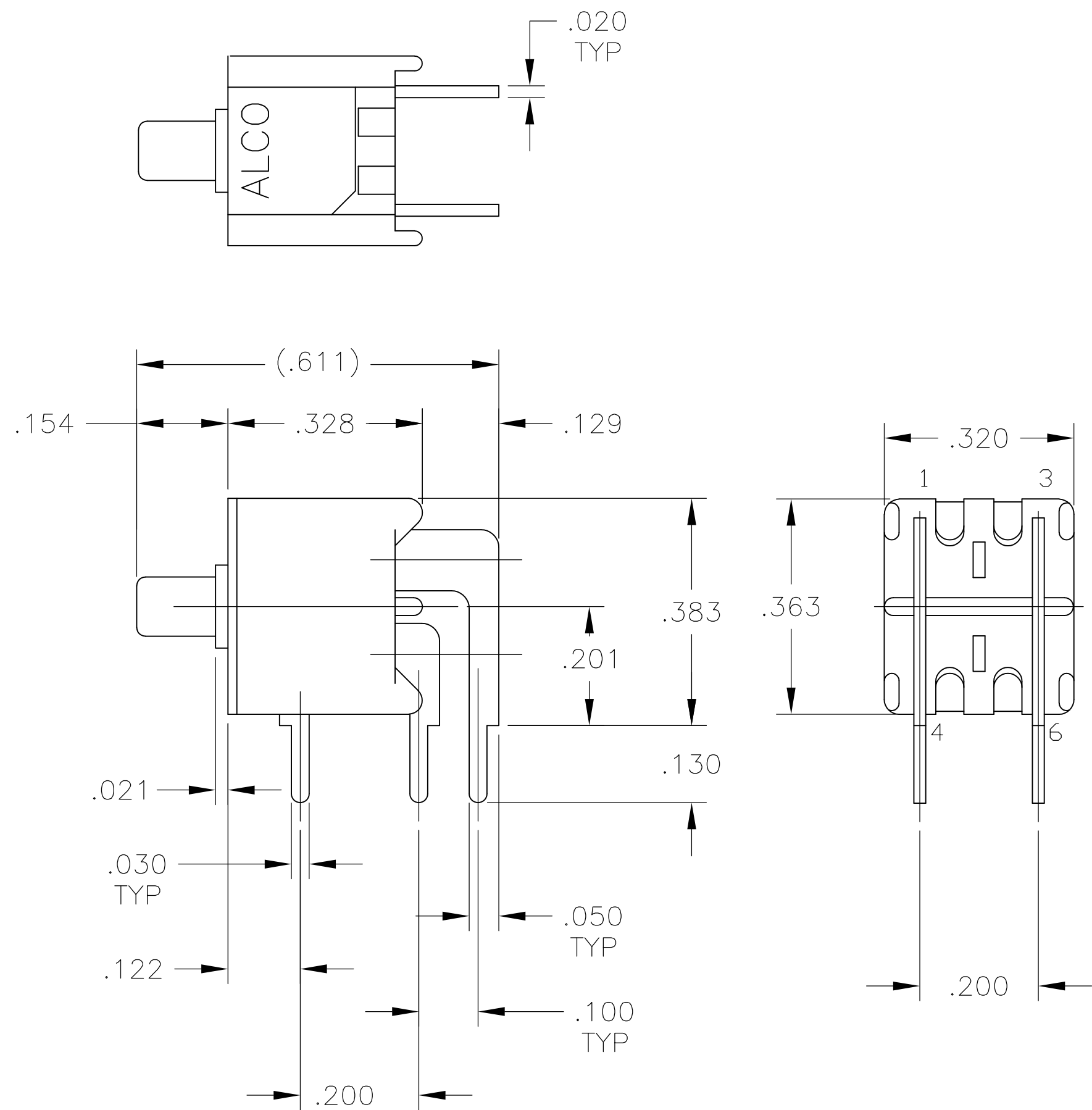
TPA21CCGRA
TPA21FFGRA



PCB HOLE LAYOUT

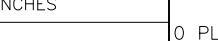


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. BINNER	01SEP05	TE Connectivity	
		CHK M. ZITTO	21JUL05		
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	AP'D M. ZITTO	21JUL05	NAME PUSHBUTTON SWITCH, TPA SERIES	
		PRODUCT SPEC		—	
	0. PLC ± .010 1. PLC ± .010 2. PLC ± .010 3. PLC ± .010 4. PLC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



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: 0 P L C ± — 1 P L C ± — 2 P L C ± .010 3 P L C ± — 4 P L C ± — ANGLES ± — FINISH —		NAME PUSHBUTTON SWITCH, TPA SERIES	
		PRODUCT SPEC — APPLICATION SPEC — —		SIZE CAGE CODE DRAWING NO RESTRICTED TO A1 00779 C 1825096 —	
		WEIGHT —		CUSTOMER DRAWING SCALE 4:1 SHEET 4 OF 4 REV A1	