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Base material	Finish
LCP, black, UL94 V-0	
Brass	Gold over nickel
Brass	Gold over nickel in contact area, Tin over nickel in solder area
Silver clad copper	Silver over nickel
Copper alloy or brass	Gold over nickel
Silver clad copper or copper	Silver over nickel
Steel	Tin over copper
Music wire	
Nylon 6/6, black, red or blue, UL94 HB	
Nylon 6/6, white	
	LCP, black, UL94 V-0 Brass Brass Silver clad copper Copper alloy or brass Silver clad copper or copper Steel Music wire Nylon 6/6, black, red or blue, UL94 HB

S	pecifications
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).

 $\overline{3}$ CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

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	REVISIONS			DIST								
DATE DWN AF	DESCRIPTION	R	P LTF	00	AD							
16MAR2015 NK F	D PER ECO-15-004048	REVIS	A2	•								
Button color 04	Terminations	g	Platin	F		Function	Rating	Poles	Model			
04									TPA			
						C _ CDCT						

Model	Poles	Rating	Function	Plating	Terminations	Button color	04				
TPA							04				
	1	1 = Gold .4VA	C = SPST	G = Gold	Blank = Wire	0 = Black					
			momentary		lug	0 DIGCK					
	2(1+1)	3 = Silver 1 Amp	F = SPDT	Blank = Silver	PC = printed	2 = Red					
			P momentary   Blattik – Silver	circuit							
			M = DPST		RA = right	6 = Blue					
			momentary		angle	0 — Diue					
			R = DPDT								
			momentary								
Notes:		· · · · · ·			· · · · · · · · · · · · · · · · · · ·						
1. Silver on	1. Silver only available in wire lug and pc terminations										

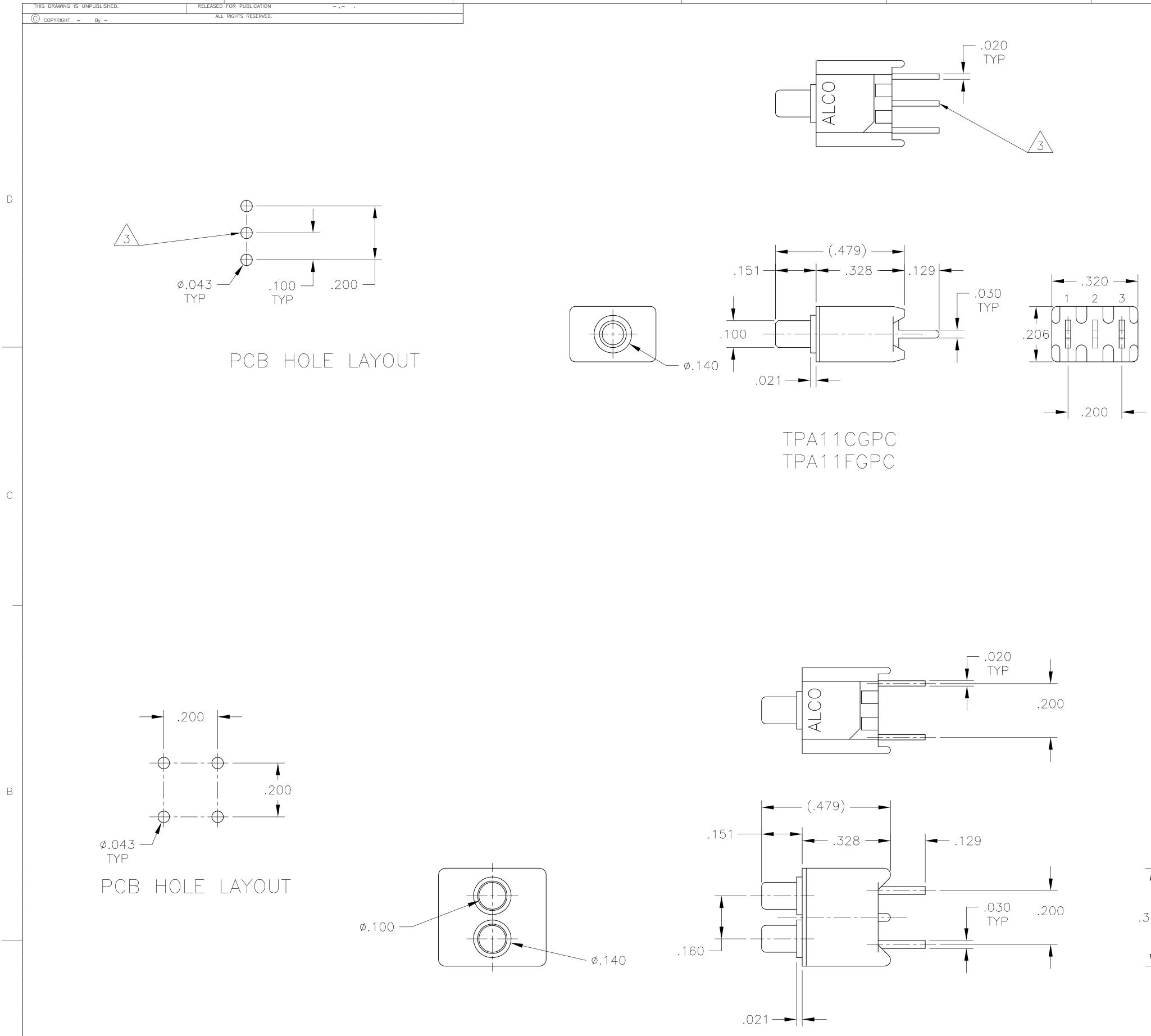
TE P/N Alco P/N Throws Plating Terminals Poles 1825096-1 TPA11CGPC004 Gold PC 1 1 PC <del>1825096-2</del> TPA11CGPC204 Gold 1 /4\ 1 <del>1825096-3</del> PC TPA11CGPC604 1 Gold 1 Gold Right Angle 1825096-4 TPA11CGRA004 1 1 1825096-5 TPA11CGRA204 Gold Right Angle 1 <del>1825096-6</del> TPA11CGRA604 Gold Right Angle 1 1 TPA11FGPC004 1825096-7 PC 1 Gold 2 TPA11FGPC204 PC <del>1825096-8</del> Gold 1 2 <del>1825096-9</del> TPA11FGPC604 PC Gold 1 2 1-1825096-0 TPA11FGRA004 Gold Right Angle 1 2 1-1825096-1 Gold Right Angle TPA11FGRA204 2 1 1-1825096-2 Gold Right Angle TPA11FGRA604 1 2  $\Lambda$ √4 1-1825096-3 | TPA21CCGPC004 2(1+1)PC Gold 1 1-1825096-4 TPA21CCGRA004 2(1+1)Gold Right Angle 1 4 <del>1-1825096-5</del> TPA21FFGRA204 Gold Right Angle 2(1+1)2 4 <del>1-1825096-6</del> TPA21MGRA004 Gold Right Angle 2 THIS DRAWING IS A

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MATERIAL \_

	Func	tion	Connected	Terminals
Button Color	ALCO ALCO 1 2 3 4 5 6	ALCO ALCO 1 2 3 4 5 6	ALCO ALCO 1 2 3 4 5 6	ALCO ALCO 1 2 3 4 5 6
Black	Off	Mom	Off	1-3
Red	Off	Mom	Off	1-3
Blue	Off	Mom	Off	1-3
Black	Off	Mom	Off	1-3
Red	Off	Mom	Off	1-3
Blue	Off	Mom	Off	1-3
Black	On	Mom	1-2	2-3
Red	On	Mom	1-2	2-3
Blue	On	Mom	1-2	2-3
Black	On	Mom	1-2	2-3
Red	On	Mom	1-2	2-3
Blue	On	Mom	1-2	2-3
Black	Off	Mom	Off	1-3, 4-6
Black	Off	Mom	Off	1-3, 4-6
Red	On	Mom	1-2, 4-5	2-3, 5-6
Black	Off	Mom	Off	1-3, 4-6
		01SEP05 21JUL05	<b>STE</b> TE	Connectivity
$ \begin{array}{c} 0 \ PLC \\ 1 \ PLC \\ 2 \ PLC \\ \end{array} $	ES     UNLESS       E     SPECIFIED:       APVD       M.ZITTO       PRODUCT SPEC       E       E       E       E       E       C       E       C		PUSHBUTTON SWITCH,	TPA SERIES
		A10077		RESTRICTED TO
	CUSTOMER	DRAWING	SCALE 4:1	SHEET OF REV A2



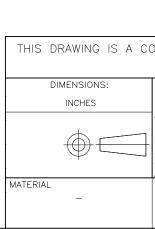
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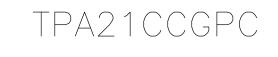
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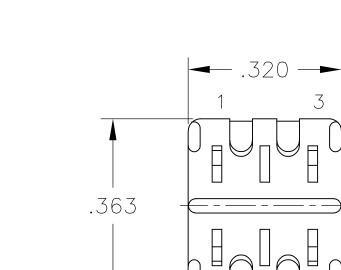
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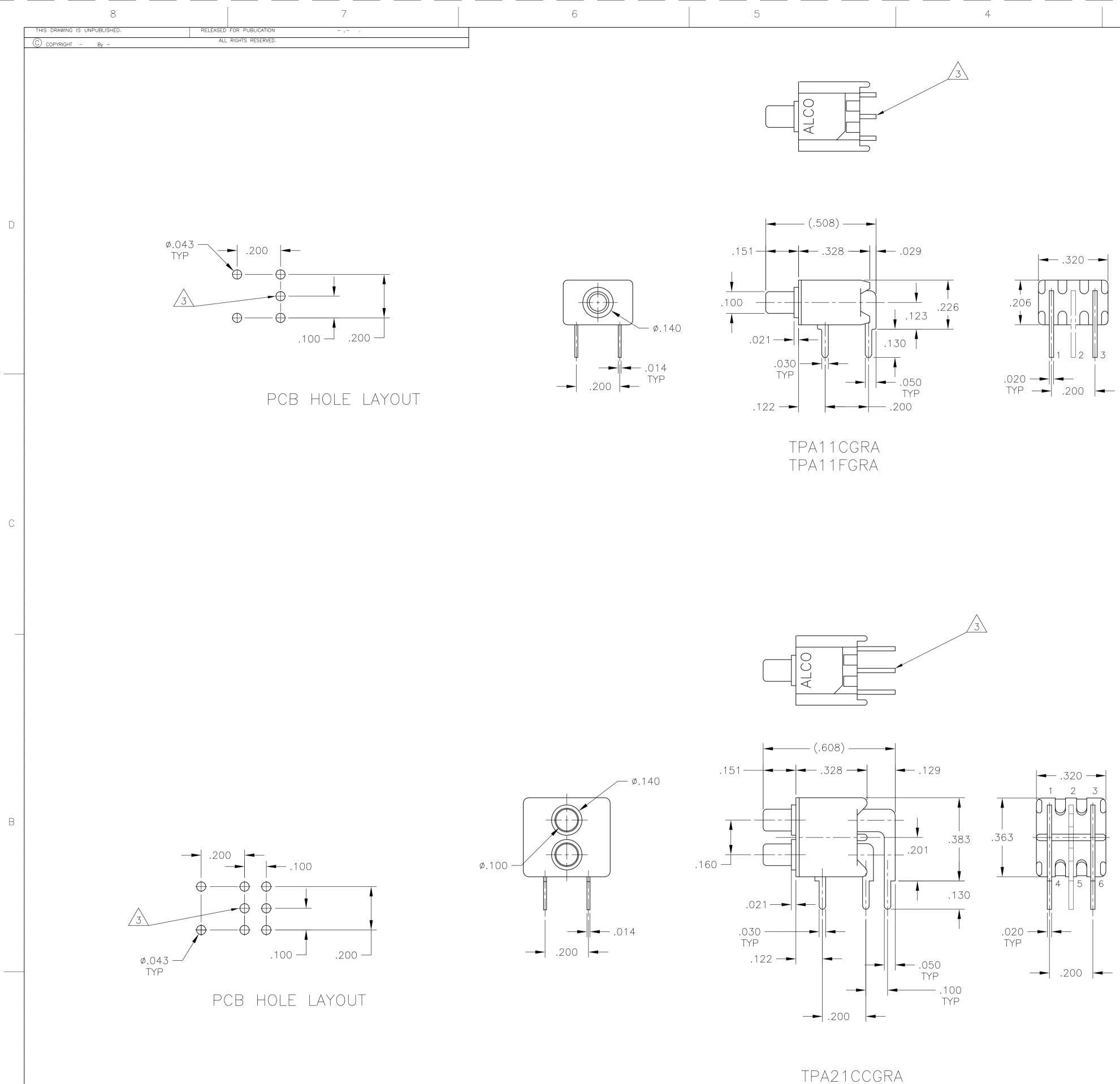
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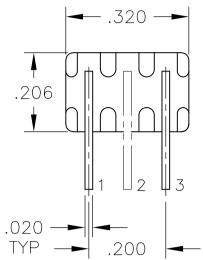
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	CHK 21JUL05 M.ZITTO	<b>E I E</b> Connectivity	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 21JUL05 M.ZITTO	NAME	
0 PLC ± - 1 PLC ± - 2 PLC ± -	PRODUCT SPEC	PUSHBUTTON SWITCH, TPA SERIES	
3 PLC ± .010 4 PLC ± - ANGLES ± -	APPLICATION SPEC	SIZE CAGE CODE DRAWING NO RES	TRICTED TO
FINISH –	WEIGHT	A 1 00779 <b>C</b> = 1825096	_
	CUSTOMER DRAWING	SCALE 4:1 SHEET 2 of 4	REV A2



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TPA21CCGRA TPA21FFGRA

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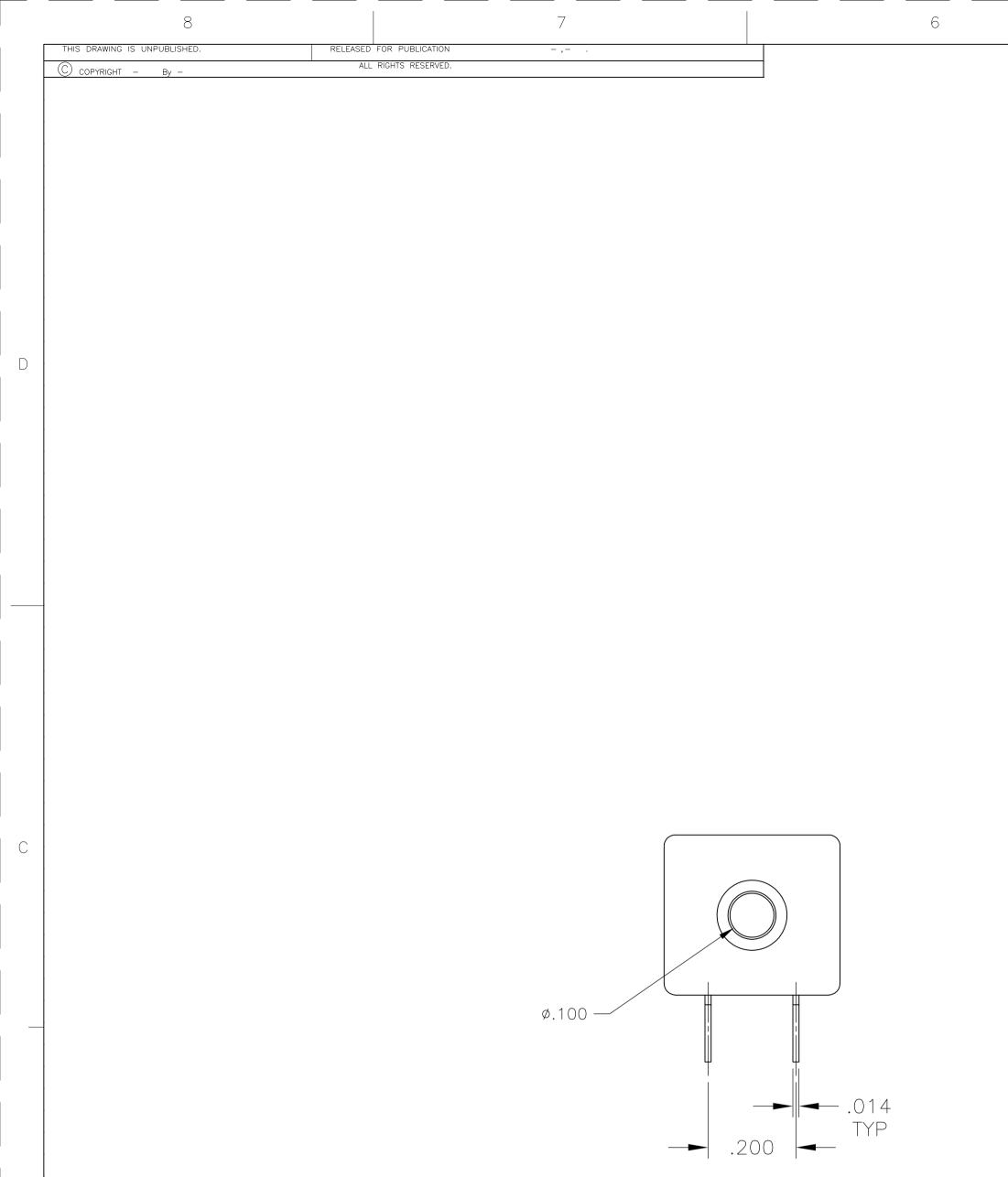
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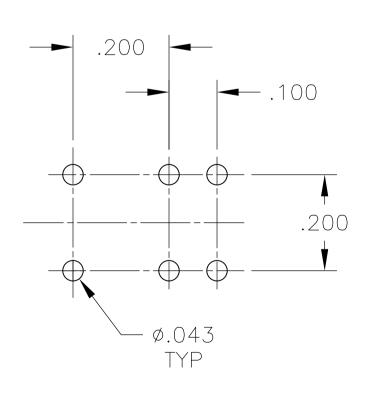
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		CHK 21JUL05 M.ZITTO				Connectivity	
	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 21JUL05 M.ZITTO	NAME				
	0 PLC ± - 1 PLC ± - 2 PLC ± -	PRODUCT SPEC		PUSHB	UTTON SWITCH,	TPA SERIES	
	3 PLC ± .010 4 PLC ± - ANGLES ± -	APPLICATION SPEC	SIZE	CAGE CODE DRAW	ING NO		RESTRICTED TO
	FINISH _	WEIGHT	A1	00779 <b>C</b> =	■1825096		_
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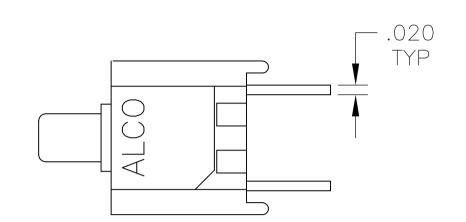
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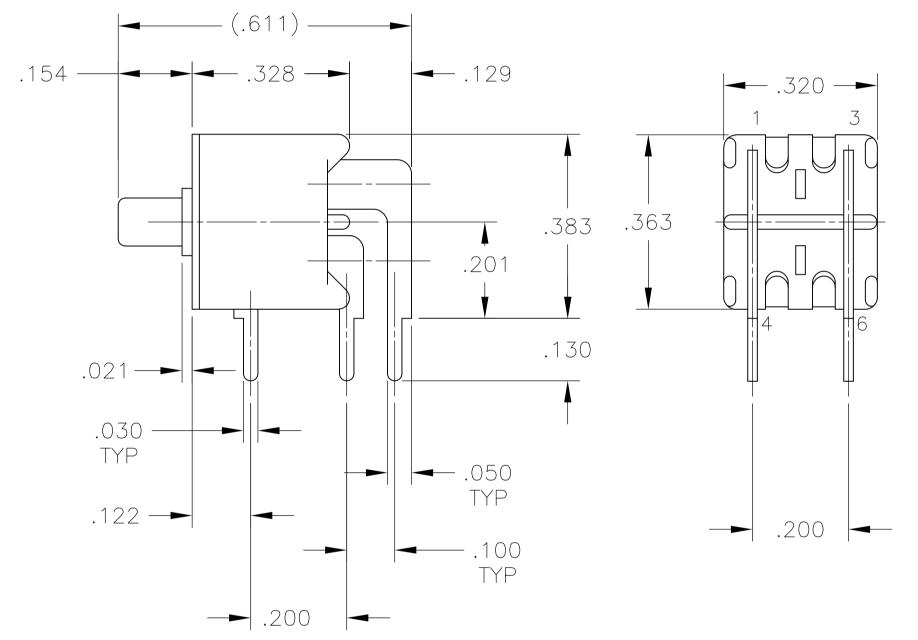
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PCB HOLE LAYOUT



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## TPA21MGRA

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dwn M.BINNER 01SEP05 S TE TE Connectivity 21JUL05 TOLERANCES UNLESS OTHERWISE SPECIFIED: 21JUL05 NAME APVD M.ZITTO PRODUCT SPEC PUSHBUTTON SWITCH, TPA SERIES SIZE CAGE CODE DRAWING NO A 1 00779 C 1825096 -SCALE 4:1 SHEET 4 OF 4 REV A 2 ANGLES FINISH EIGH \_ -CUSTOMER DRAWING

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