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Component name	Base material	Finish
Case	LCP, black, UL94 V-0	
Terminal, wire lug (gold)	Brass	Gold over nickel
Terminal, PC, RA & VRA (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 (extended) or UL94V-2 (flush)	
Support bracket (RA*ES versions only)	Brass	Tin over copper
Support bracket, VRA	Steel	Tin over copper
Bushing	Brass	Nickel over copper
ES Housing (ES versions)	Nylon 6/6, natural, UL94 V-2	
ES boot (ES versions)	Vinyl plastisol, black	

() () () () () () () () () ()	Specifications
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 DISPOSABLE BOOT SUPPLIED WITH ES VERSIONS. BOOT TO BE PLACED OVER BUSHING BEFORE SOLDER WASHING.

CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

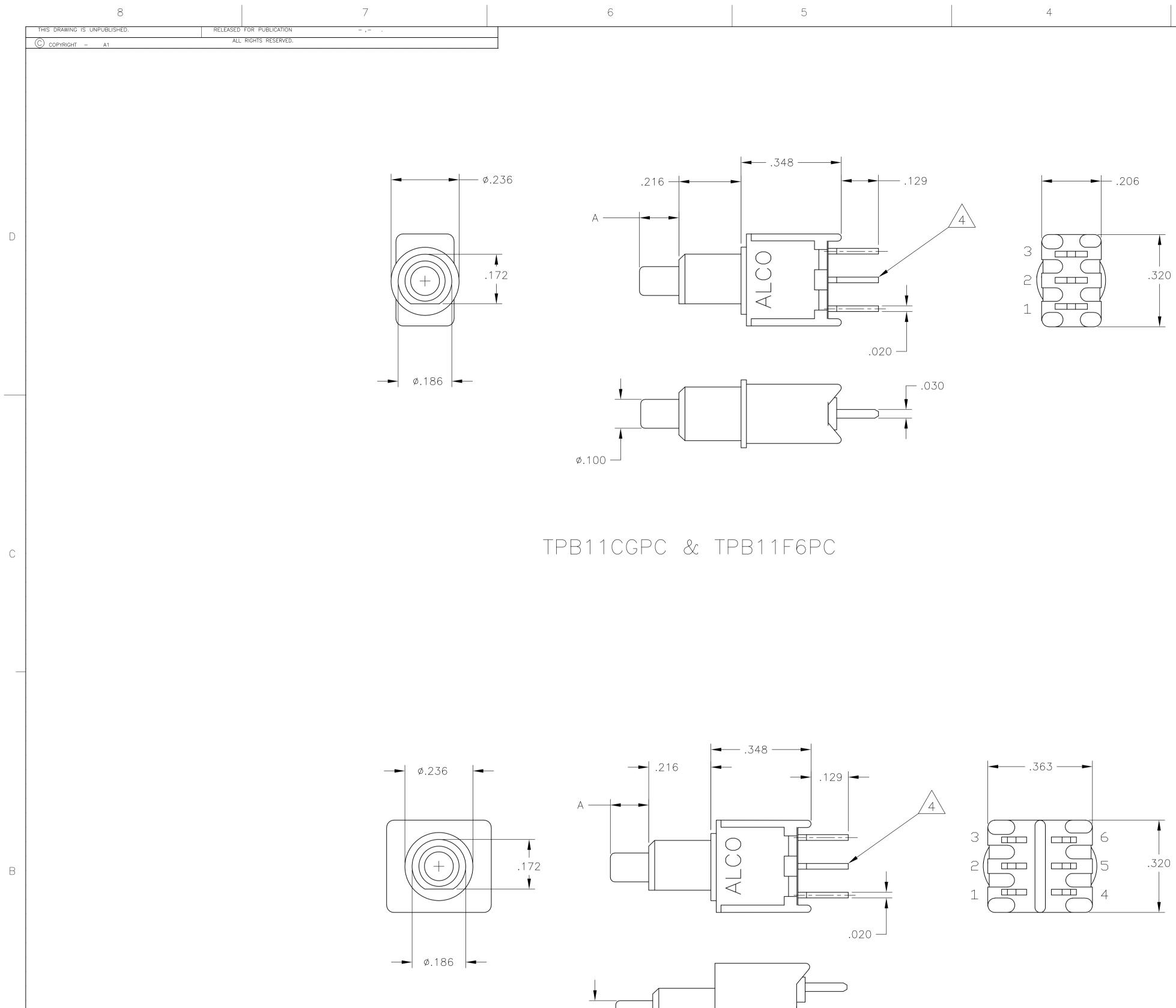


25 center hole required on double throw SWITCHES ONLY.

6 OBSOLETE.

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⊃B	exter	nded	1 = Gold $3 = Silv$	or 1	= SPST n		G = Gold	Blank =			process s	ealed 2	0 = Blac	ck
	F =	flush 2 (1+1)	Amp		= SPDT m	nomentary	Blank = Silver 1	PC = prin ⁻	ed circuit				2 = Red	d
		2		M	= DPST n	nomentary		RA = right	-				6 = Blu	е
				R	= DPDT n	nomentary		VRA = ver angl						
S: Silve	er onlv avai	lable in wire lug a	nd pc term	inations										
RAE	S available	with B and C bus ilable in single p	hing only											
										Fun	ction	Connected	d Terminals	
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	1825097-21825097-31825097-61825097-4	TPB11CGPC204 TPB11CGPCES004 TPB11CGRA004 TPB11CGRA204	no no no no	1 1 1 1 1 1 1	1 1 1 1	Gold Gold Gold Gold	PC PC Right Angle Right Angle	No yes No e No	Red Black Black Red	4 5 6 Off Off Off Off Off	 1 2 3 4 5 6 Mom Mom Mom Mom	1 2 3 4 5 6 Off Off Off Off Off Off Off Off	1 2 3 4 5 6 1-3	.133 .133 .133 .133
	1825097-2 1825097-3 1825097-6	TPB11CGPC204 TPB11CGPCES004 TPB11CGRA004	no no no	1	1 1 1	Gold Gold Gold	PC PC Right Angle	No yes No e No e yes	Red Black Black	4 5 6 Off 0ff Off 0ff Off 0ff	 1 2 3 4 5 6 Mom Mom Mom	1 2 3 4 5 6 Off Off Off Off Off Off	1 2 3 4 5 6 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3	.13: .13: .13: .13: .13: .13:
	1825097-21825097-31825097-61825097-41825097-5	TPB11CGPC204TPB11CGPCES004TPB11CGRA004TPB11CGRA204TPB11CGRAES004	no no no no	1	1 1 1 1 1 1	Gold Gold Gold Gold Gold	PC PC Right Angle Right Angle Right Angle	No yes No e No e yes	Red Black Black Red Black	4 5 6 Off Off Off Off Off Off	 1 2 3 4 5 6 Mom Mom Mom Mom Mom	1 2 3 4 5 6 Off Off Off Off Off Off Off Off Off Off Off Off	1 2 3 4 5 6 1-3	.13: .13: .13: .13: .13: .13: .13:
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	1825097-2 1825097-3 1825097-6 1825097-6 1825097-7 1825097-7 1825097-8 1825097-9 1825097-0	TPB11CGPC204TPB11CGPCES004TPB11CGRA004TPB11CGRA204TPB11CGRAES004TPB11CGRAES204TPB11CGVRA004TPB11FGPC004TPB11FGPCES204	no no no no no no no no	1 1 1 1 1	1 1 1 1 1 1 1 1 2 2	Gold Gold Gold Gold Gold Gold Gold Gold	PC PC Right Angle Right Angle Right Angle Right Angle VRA PC PC	No yes No No No No No yes	Red Black Black Red Black Red Black Black Black	4 5 6 Off Off On On	1 2 3 4 5 6 Mom Mom	1 2 3 4 5 6 Off Off Intervention Intervention Intervention Intervention Intervention Intervention Intervention Intervention Intervention Intervention	1 2 3 1 2 3 4 5 6 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 2-3 2-3 2-3	.13 .13 .13 .13 .13 .13 .13 .13 .11 .13
	1825097-21825097-31825097-61825097-41825097-51825097-71825097-81825097-8	TPB11CGPC204TPB11CGPCES004TPB11CGRA004TPB11CGRA204TPB11CGRAES004TPB11CGRAES204TPB11CGVRA004TPB11FGPC004	no no no no no no no	1 1 1 1 1	1 1 1 1 1 1 1 1 2	Gold Gold Gold Gold Gold Gold Gold Gold	PC PC Right Angle Right Angle Right Angle Right Angle VRA PC	No yes No No No Yes No No yes No	Red Black Black Red Black Red Black Black	4 5 6 Off Off	1 2 3 4 5 6 Mom Mom	1 2 3 4 5 6 Off Off	1 2 3 1 2 3 4 5 6 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 2-3	.13 .13 .13 .13 .13 .13 .13 .13 .11 .13 .13
	1825097-2 1825097-3 1825097-6 1825097-6 1825097-7 1825097-7 1825097-8 1825097-9 1-1825097-0 1-1825097-1	TPB11CGPC204TPB11CGPCES004TPB11CGRA004TPB11CGRA204TPB11CGRAES004TPB11CGRAES204TPB11CGVRA004TPB11FGPC004TPB11FGPCES204TPB11FGRA004	no no no no no no no no no	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 2 2 2	Gold Gold Gold Gold Gold Gold Gold Gold	PC PC Right Angle Right Angle Right Angle Right Angle VRA PC PC Right Angle	No yes No No No Yes No No yes No No No	Red Black Black Red Black Red Black Black Black Red Black	4 5 6 Off Off On On On On	1 2 3 4 5 6 Mom Mom	1 2 3 4 5 6 Off Off I-2 1-2 1-2 1-2	1 2 3 1 2 3 4 5 6 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 2-3 2-3 2-3 2-3 2-3	.13 .13 .13 .13 .13 .13 .13 .13 .13 .13
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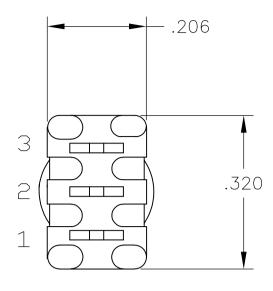
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	1825097-1	TPB11CGPC204	no	1	1	Gold	PC	No	Red	Off	Mom	Off	1-3	.133
	1825097-3	TPB11CGPCES004	no	1	1	Gold	PC	yes	Black	Off	Mom	Off	1-3	.133
	1825097-6	TPB11CGRA004	no	1	1	Gold	Right Angle	No	Black	Off	Mom	Off	1-3	.133
	1825097-4	TPB11CGRA204	no	1	1	Gold	Right Angle	No	Red	Off	Mom	Off	1-3	.133
	1825097-5 1825097-7	TPB11CGRAES004 TPB11CGRAES204	no	1	1	Gold	Right Angle Right Angle	yes yes	Black	Off Off	Mom Mom	Off	1-3 1-3	.133
	1825097-7	TPB11CGRAES204	no	1	1 1	Gold	VRA	No	Black	Off	Mom	Off	1-3	.133
	1825097-9	TPB11FGPC004	no	1	2	Gold	PC	No	Black	On	Mom	1-2	2-3	.133
1	I -1825097-0	TPB11FGPCES204	no	1	2	Gold	PC	yes	Red	On	Mom	1-2	2-3	.133
	1-1825097-1	TPB11FGRA004	no	1	2	Gold	Right Angle	No	Black	On	Mom	1-2	2-3	.133
	I-1825097-2	TPB11FGRA204	no	1	2	Gold	Right Angle	No	Red	On	Mom	1-2	2-3	.133
	I -1825097-3 I-1825097-4	TPB11FGRA604 TPB11FGRAES004	no	1	2	Gold	Right Angle Right Angle	No yes	Blue Black	On On	Mom Mom	1-2 1-2	2-3 2-3	.133
	I-1825097-4	TPB11FGRAES604	no	1	2	Gold	Right Angle	yes	Blue	On	Mom	1-2	2-3	.133
	1-1825097-6	TPB11FGVRA004	no	1	2	Gold	VRA	No	Black	On	Mom	1-2	2-3	.117
	I -1825097-7	TPB21MGPC004	no	2	1	Gold	PC	No	Black	Off	Mom	Off	1-3, 4-6	.133
	I-1825097-8	TPB21MGPC204	no	2	1	Gold	PC Pight Angle	No	Red	Off	Mom	Off	1-3, 4-6	.133
	2-1825097-8 I -1825097-9	TPB21MGRA004 TPB21RGRA004	no	2	1	Gold	Right Angle Right Angle	No No	Black	Off On	Mom Mom	Off 1-2, 4-5	1-3, 4-6 2-3, 5-6	.133
	2-1825097-0	TPBF11CGPCES004		1		Gold	PC	yes	Black	Off	Mom	Off	1-3	.000
	2-1825097-1	TPBF11CGRA004	yes	1	1	Gold	Right Angle	No	Black	Off	Mom	Off	1-3	.000
	2-1825097-2	TPBF11CGRAES004		1	1	Gold	Right Angle	yes	Black	Off	Mom	Off	1-3	.000
	2-1825097-3	TPBF11FGPCES004	yes	1	2	Gold	PC Right Angle	yes	Black	On	Mom	1-2	2-3	.000
	2-1825097-4 2-1825097-5	TPBF11FGRA004 TPBF11FGRA204	yes yes	1	2	Gold	Right Angle Right Angle	No No	Black	On On	Mom Mom	1-2 1-2	2-3 2-3	.000
	2-1825097-5 2-1825097-6	TPBF11FGRAES004	-	1	2	Gold	Right Angle	yes	Black	On	Mom	1-2	2-3	.000
			1	1			A CONTROLLED DOC	CUMENT. M.BINI	NER 2	CJULO5	E 1		TE Connectivit	
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						INCHES	0 PLC ± -	M.ZITT PRODUCT S	0	· · w w L	PUSHBU	TTON SWITCH	H, TPB SERIES	3
						$\oplus \in$	$\begin{array}{c c} 1 \ PLC & \pm \\ 2 \ PLC & \pm \\ 3 \ PLC & \pm \\ 01 \end{array}$	10 APPLICATIO	ON SPEC					
					M	IATERIAL	4 PLC ± -	±			cage code drawing 00779			RESTRICTED
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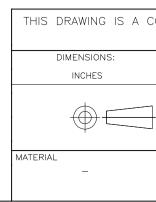
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TPB21MGPC & TPB21RGPC

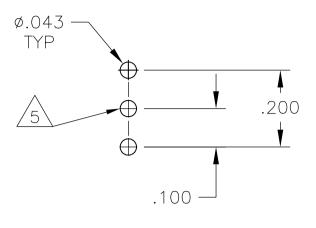
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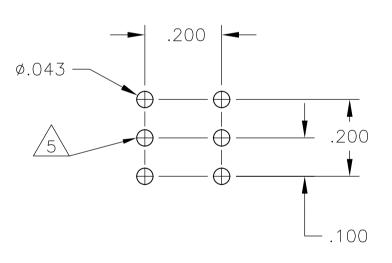
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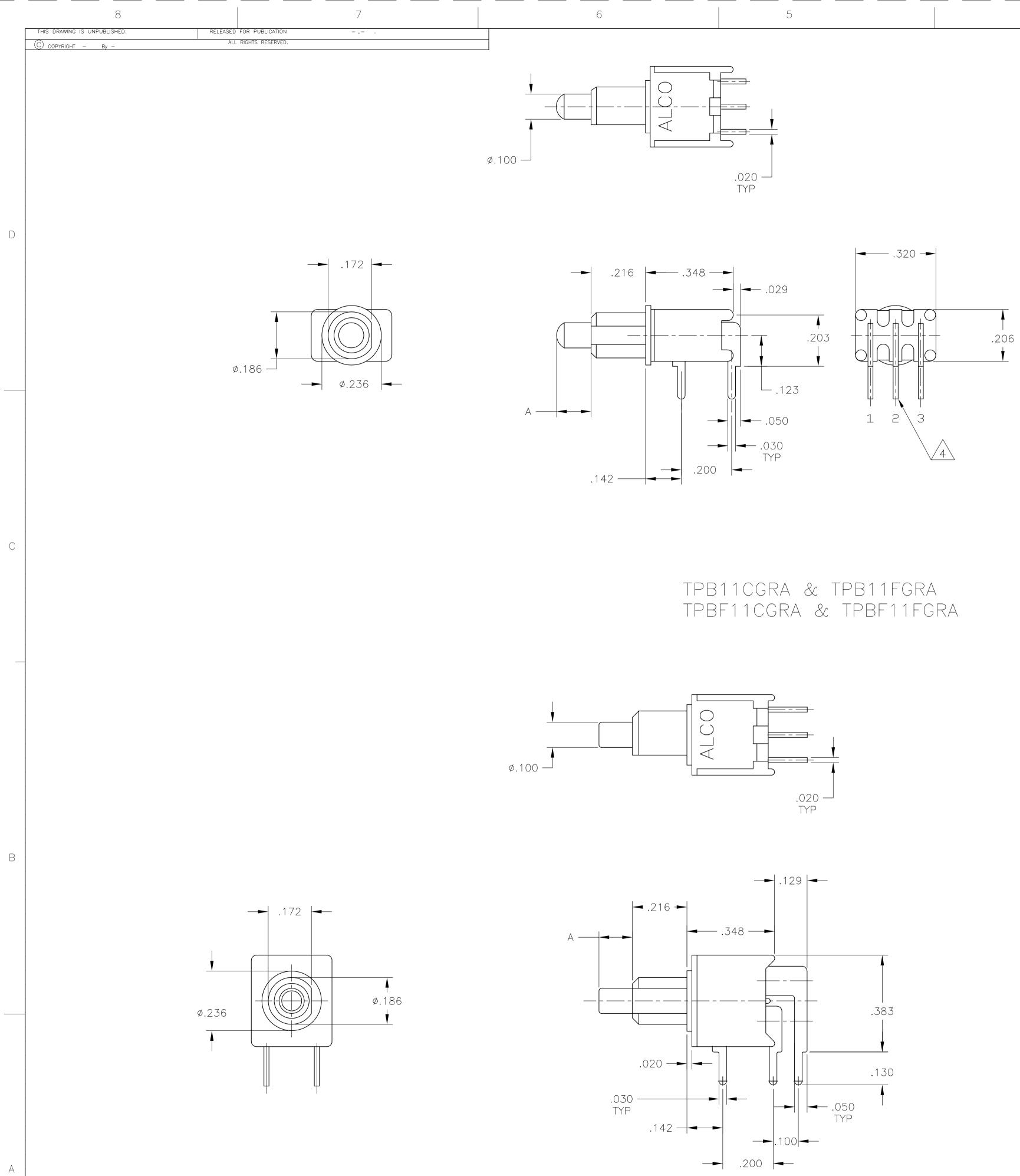
PCB HOLE LAYOUT

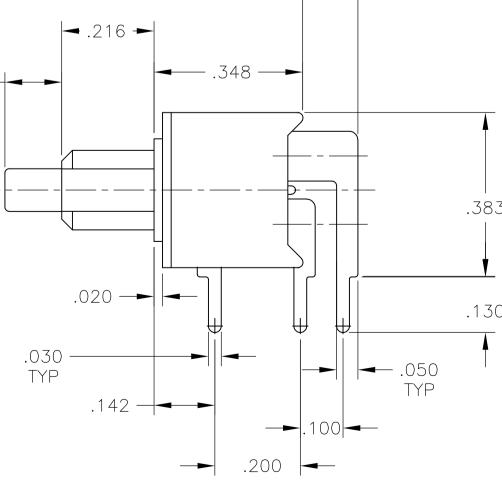


PCB HOLE LAYOUT

С	CONTROLLED DOCUMENT.			dwn M.BINNER	20JUL05			E TE	TE	Conr	nectivity	
					21JUL05					00111		
	TOLERANCES UNLESS OTHERWISE SPECIFIED:			M.ZITTO								
	OTHERW	ISE S	SPECIFIED:	APVD	21JUL05	NAME						
				M.ZITTO			PU:	SHBUTTO	N SWITCH,	TPB	SERIES	
	0 PLC	±	_	PRODUCT SPEC					··· - ··· - · · ,			
	1 PLC	±	_						—			
	2 PLC	±	_	—					_			
	3 PLC	±	.010	APPLICATION SPEC								
	4 PLC		_			SIZE	CAGE CODE	DRAWING NO				RESTRICTED TO
	ANGLES		± –] —								
	FINISH	_		WEIGHT		A1	00779	C- 18	25097			_
				CUSTOMER DR	AWING	-			scale 4:1	SHEET	2 ^{of} 6	A2

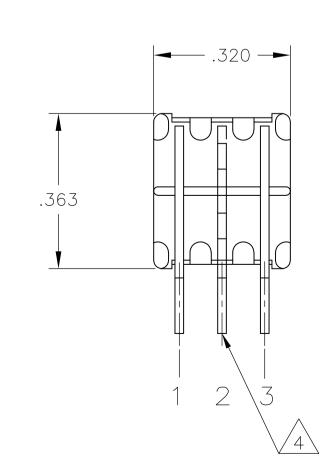
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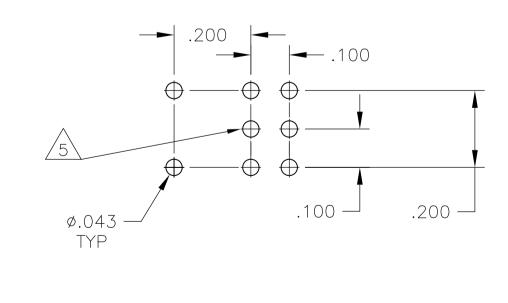


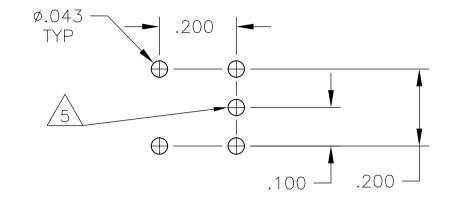


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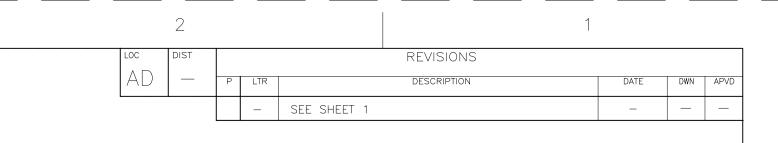
TPB21MGRA & TPB21RGRA







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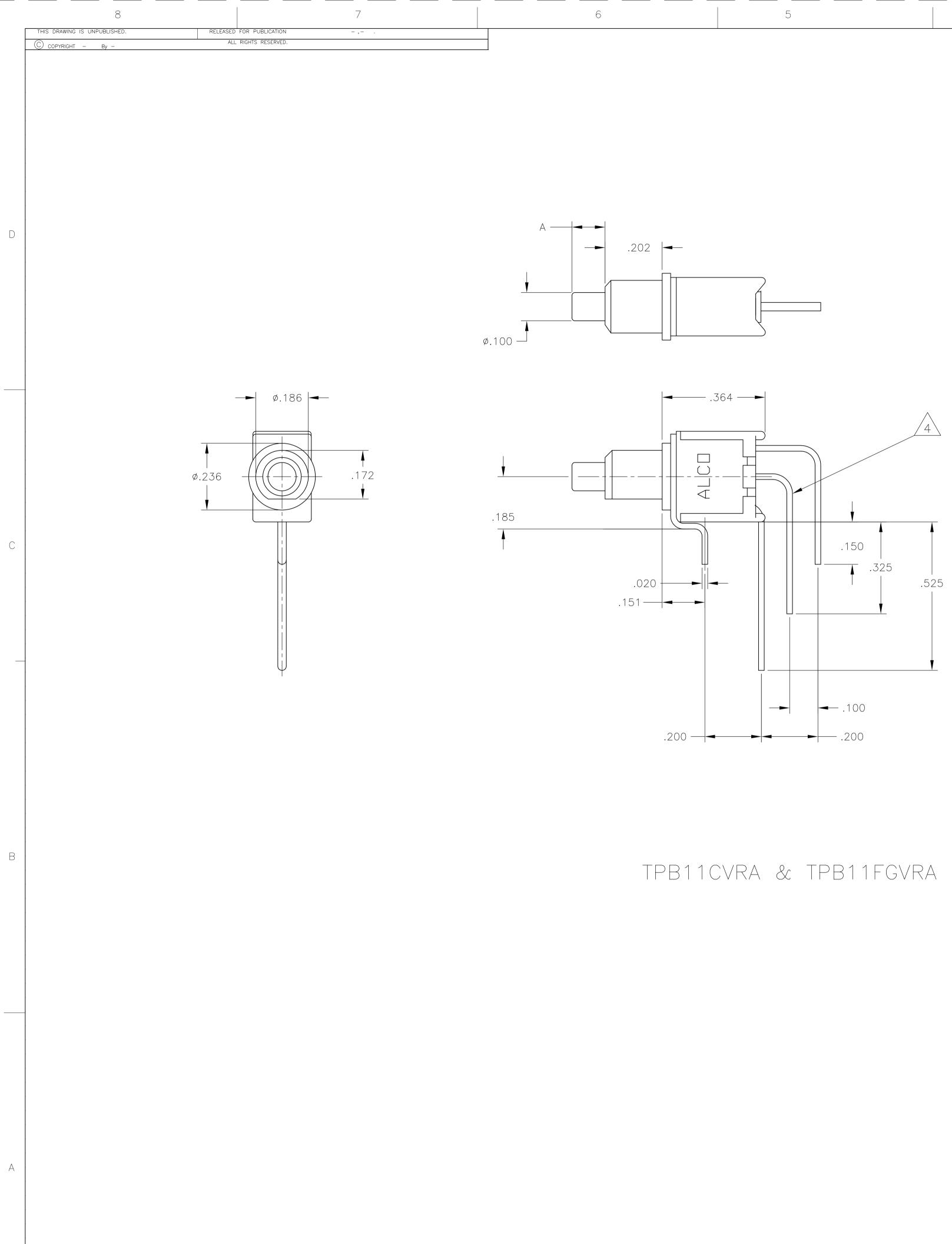


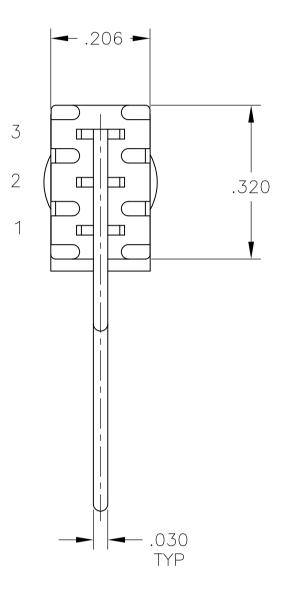




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	1	CHK 21JUL05 M.ZITTO	TE Connectivity
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 21JUL05	NAME
INCHES	OTHERWISE SPECIFIED.	M.ZITTO	PUSHBUTTON SWITCH, TPB SERIES
	OPLC ± -	PRODUCT SPEC	
_	1 PLC ± -		_
$(\oplus) =$	2 PLC ± - 3 PLC ± .010	APPLICATION SPEC	
+ $-$	4 PLC ± -		SIZE CAGE CODE DRAWING NO RESTRICTED TO
MATERIAL	ANGLES ± – FINISH	WEIGHT	A1 00779 C-1825097 -
—	-		
		CUSTOMER DRAWING	SCALE 4:1 SHEET 3 OF REV A2

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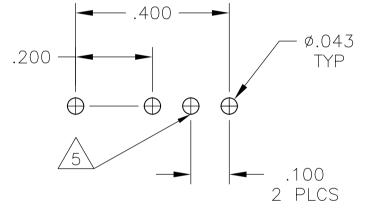


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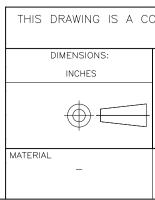
PCB HOLE LAYOUT

С	ONTROLLED DOCUMENT.	M.BINNER	UL05			TE	TE	Conne	ctivity		
	TOLERANCES UNLESS OTHERWISE SPECIFIED:	M.ZITTO APVD 21ju M.ZITTO	UL05	NAME							
	0 PLC ± - 1 PLC ± - 2 PLC ± -	PRODUCT SPEC			PUSH	BULLOR	N SWITCH, —	ILR 2	ERIES		
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APPLICATION SPEC		SIZE	CAGE CODE DRA	WING NO	_			RESTRICTE	D TO
	FINISH –	WEIGHT		Α1	00779 C	; —182	25097				
		CUSTOMER DRAWING	G				scale 4:1	SHEET	4 ^{OF} F	S REV	2

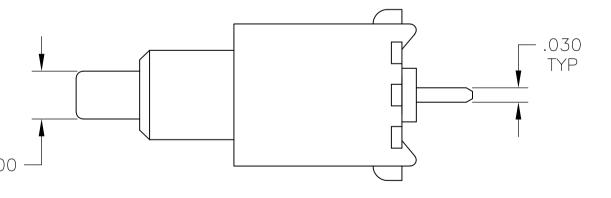
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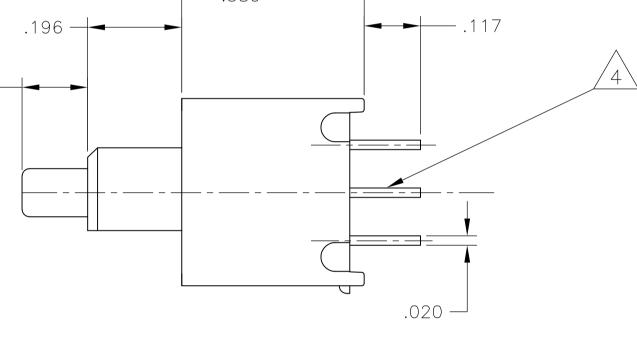
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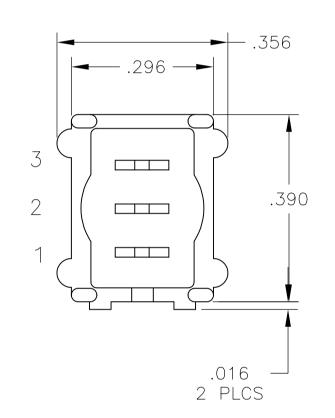


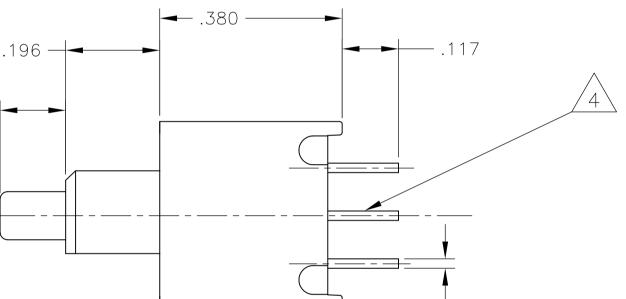
TPB11CGPCES & TPB11FGPCES TPBF11CGPCES & TPBF11FGPCES





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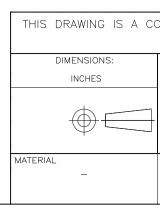
PCB HOLE LAYOUT

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				1JUL05	TE Connectivity	
	TOLERAN OTHERWIS	CES UNLESS SE SPECIFIED:		1JUL05	NAME PUSHBUTTON SWITCH, TPB SERIES	1
1	0 PLC 1 PLC 2 PLC	± - ± - ± -	PRODUCT SPEC			
	3 PLC 4 PLC ANGLES	± .010 ± - ± -	APPLICATION SPEC	-	SIZE CAGE CODE DRAWING NO RESTRICTED TO)
	FINISH	_	WEIGHT		A 1 00779 C- 1825097 -	
			CUSTOMER DRAWI	NG	4:1 SCALE 4:1 SHEET 5 6 REV A2	

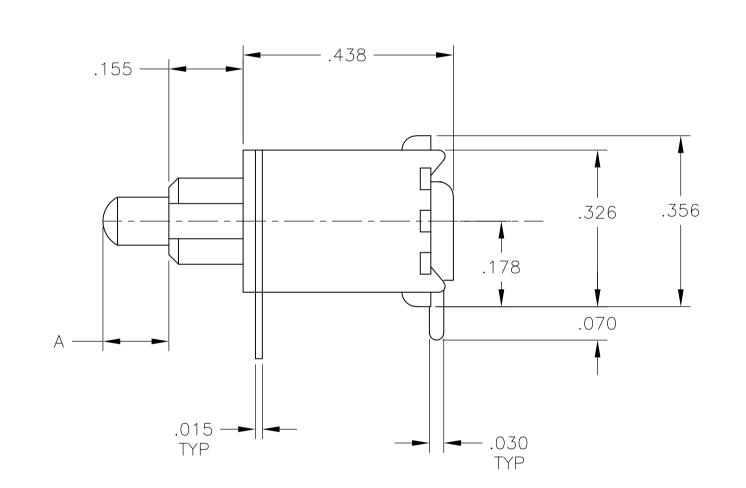
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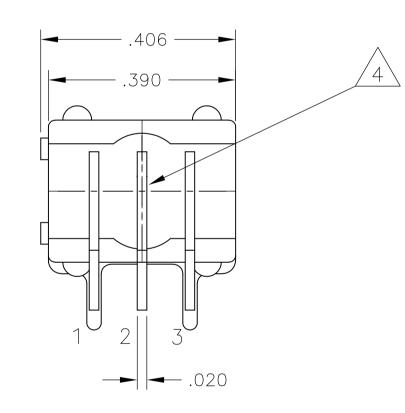
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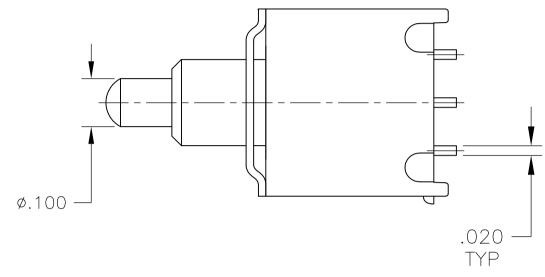
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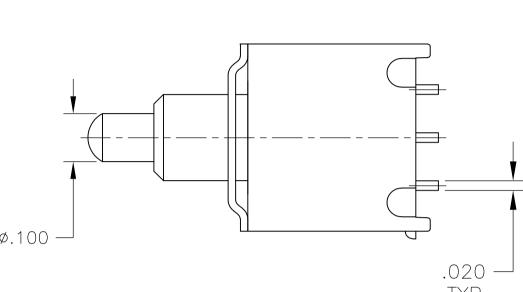


TPB11CGRAES & TPB11FGRAES TPBF11CGRAES & TPBF11FGRAES



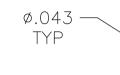






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PCB HOLE LAYOUT

				CUSTOMER	DRAWING	1			SCALE 4:1	SHEET	6 ^{OF} 6	A2
	FINISH	_		WEIGHT	_]A 1	00779	C- 182	25097			
	4 PLC ANGLES	±	- ± -	_		SIZE	CAGE CODE	DRAWING NO				RESTRICTED TO
	3 PLC	±	.010	APPLICATION SPE	С				—			
-	1 PLC 2 PLC	± . +	_	_								
	0 PLC	±	_	PRODUCT SPEC		1	100		n Switch,			
	OTHERWIS		SPECIFIED:	M.ZITTO	2100203		PH	SHRUTTO	N SWITCH,	TPR 9	SERIES	
	TOLERANCES UNLESS OTHERWISE SPECIFIED:		M.ZITTO	21JUL05	NAME							
				СНК	21JUL05	1		e te		Conne	ectivity	,
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TE Connectivity: TPB11CGVRA004