LOC	DIST	REVISIONS				
AD	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			A2	REVISED PER ECO-15-004048	17MAR2015	NK	RH

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

Model	Actuator	Poles	Rating	Function	Plating	Terminations	Process Seal	Button color	04
TPB	Blank = extended	1	1 = Gold .4VA	C = SPST momentary	G = Gold	Blank = Wire lug	ES = process sealed 2	0 = Black	
	F = flush	2 (1+1)	3 = Silver 1 Amp 1	F = SPDT momentary	Blank = Silver 1	PC = printed circuit		2 = Red	
		2		M = DPST momentary		RA = right angle 2		6 = Blue	
				R = DPDT momentary		VRA = vertical right angle 3			

NOTES:
1.   Silver only available in wire lug and pc terminations
2.   RAES available with B and C bushing only
3.   VRA only available in single pole

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.

4   CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

5   CENTER HOLE REQUIRED ON DOUBLE THROW SWITCHES ONLY.

6   OBSOLETE.

P/N	Alco P/N	Flush Actuator?	Poles	Throws	Plating	Terminals	Process sealed?	Button Color	Function				Connected Terminals		Dim A
1825097-1	TPB11CGPC004	no	1	1	Gold	PC	No	Black	Off	Mom	Off		1-3		.133
1825097-2	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	TPB11CGRAES004	no	1	1	Gold	Right Angle	yes	Black	Off	Mom	Off		1-3		.133
1825097-7	TPB11CGRAES204	no	1	1	Gold	Right Angle	yes	Red	Off	Mom	Off		1-3		.133
1825097-8	TPB11CGVRA004	no	1	1	Gold	VRA	No	Black	Off	Mom	Off		1-3		.117
1825097-9	TPB11FGPC004	no	1	2	Gold	PC	No	Black	On	Mom	1-2		2-3		.133
1-1825097-0	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
1-1825097-2	TPB11FGRA204	no	1	2	Gold	Right Angle	No	Red	On	Mom	1-2		2-3		.133
1-1825097-3	TPB11FGRA604	no	1	2	Gold	Right Angle	No	Blue	On	Mom	1-2		2-3		.133
1-1825097-4	TPB11FGRAES004	no	1	2	Gold	Right Angle	yes	Black	On	Mom	1-2		2-3		.133
1-1825097-5	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
1-1825097-7	TPB21MGPC004	no	2	1	Gold	PC	No	Black	Off	Mom	Off		1-3, 4-6		.133
1-1825097-8	TPB21MGPC204	no	2	1	Gold	PC	No	Red	Off	Mom	Off		1-3, 4-6		.133
2-1825097-8	TPB21MGRA004	no	2	1	Gold	Right Angle	No	Black	Off	Mom	Off		1-3, 4-6		.133
1-1825097-9	TPB21RGRA004	no	2	2	Gold	Right Angle	No	Black	On	Mom	1-2, 4-5		2-3, 5-6		.133
2-1825097-0	TPBF11CGPCES004	yes	1	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	yes	1	1	Gold	Right Angle	yes	Black	Off	Mom	Off		1-3		.000
2-1825097-3	TPBF11FGPCES004	yes	1	2	Gold	PC	yes	Black	On	Mom	1-2		2-3		.000
2-1825097-4	TPBF11FGRA004	yes	1	2	Gold	Right Angle	No	Black	On	Mom	1-2		2-3		.000
2-1825097-5	TPBF11FGRA204	yes	1	2	Gold	Right Angle	No	Red	On	Mom	1-2		2-3		.000
2-1825097-6	TPBF11FGRAES004	yes	1	2	Gold	Right Angle	yes	Black	On	Mom	1-2		2-3		.000

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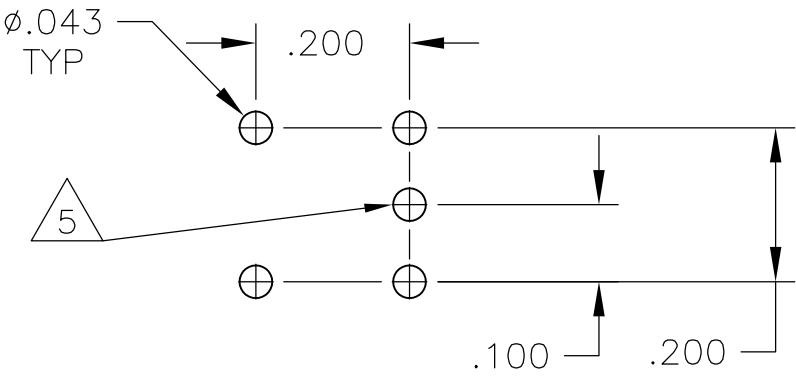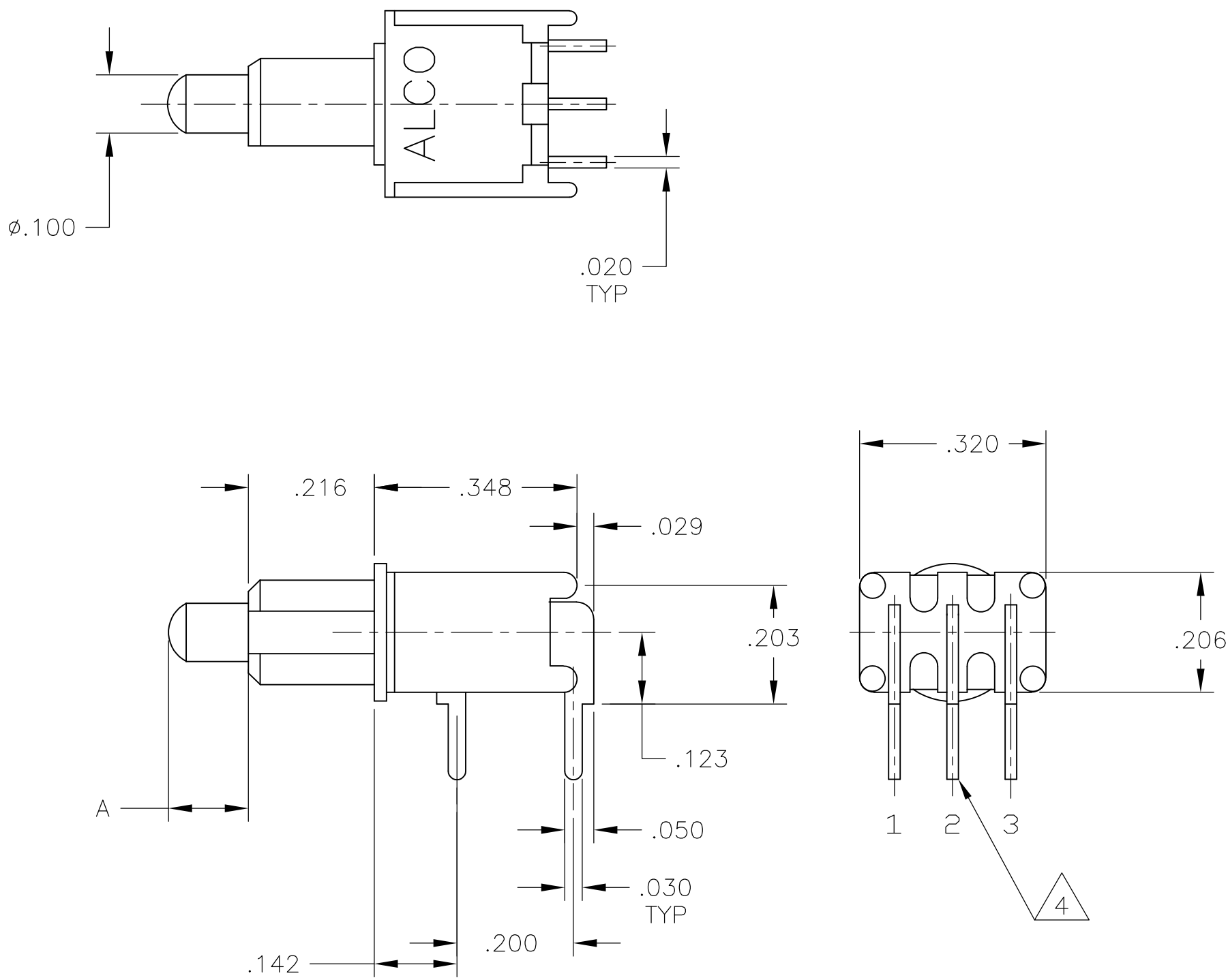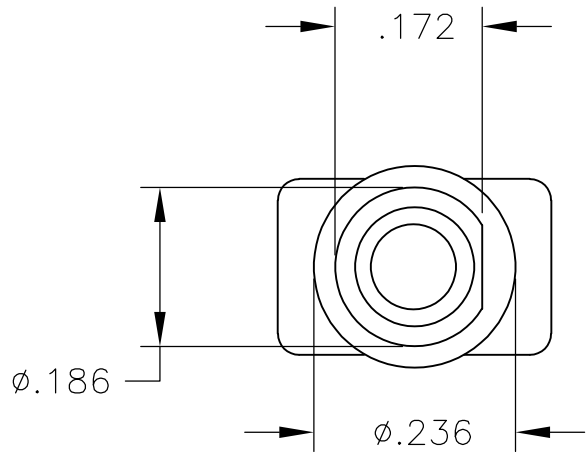| DRN M.BINNER | 20JUL05 |
| CHK M.ZITTO | 21JUL05 |
| APVD M.ZITTO | 21JUL05 |

TE Connectivity

PUSHBUTTON SWITCH, TPB SERIES
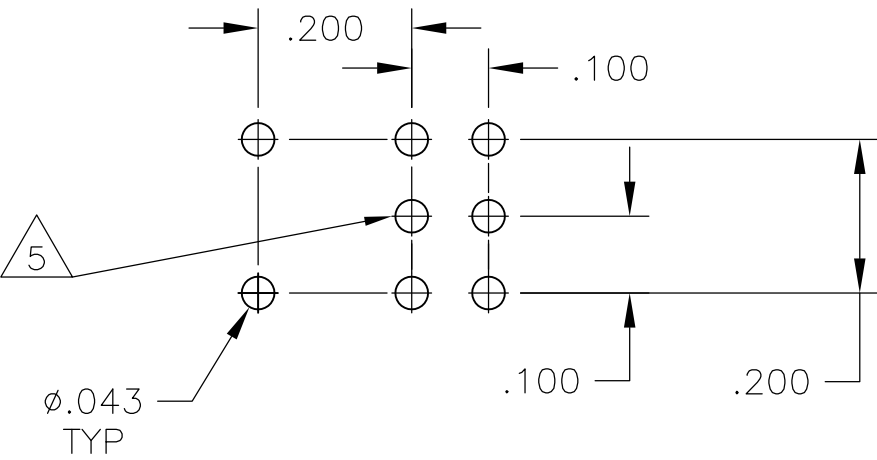
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A1	00779	C-1825097	-

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC   ± -
1 PLC   ± -
2 PLC   ± -
3 PLC   ± .010
4 PLC   ± -
ANGLES ± -

PRODUCT SPEC -
APPLICATION SPEC -
MATERIAL -   FINISH -   WEIGHT -

CUSTOMER DRAWING
SCALE 4:1   SHEET 1 OF 6   REV A2

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

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PCB HOLE LAYOUT

TPB11CGPC & TPB11F6PC

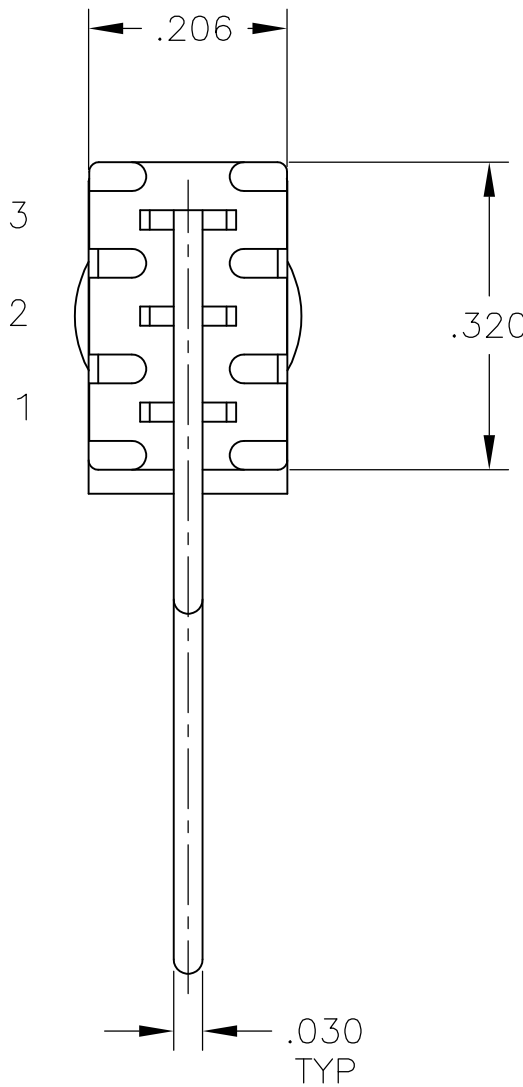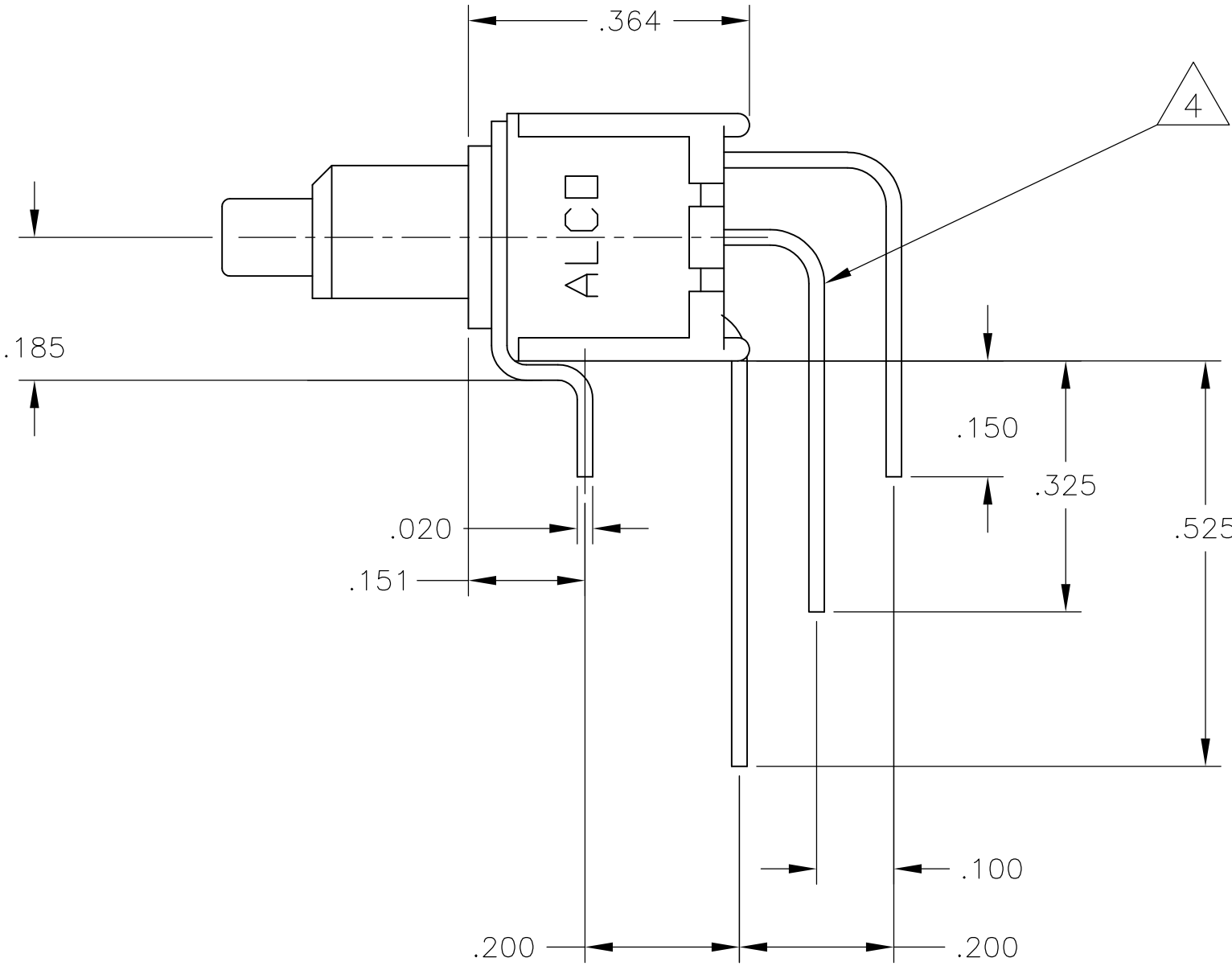Ø.236
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PCB HOLE LAYOUT

TPB21MGPC & TPB21RGPC

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		DWN M.BINNER	20JUL05	≡TE	TE Connectivity
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	CHK M.ZITTO	21JUL05		
		APVD M.ZITTO	21JUL05	NAME	
	0 PLC ± —	PRODUCT SPEC		PUSHBUTTON SWITCH, TPB SERIES	
	1 PLC ± —	—			
	2 PLC ± —			—	
	3 PLC ± .010	APPLICATION SPEC			
	4 PLC ± —	—			
	ANGLES ± — ± —				

MATERIAL	FINISH	WEIGHT	SIZE	CAGE CODE	DRAWING NO		RESTRICTED TO
—	—	—	A1	00779	C-1825097		—

CUSTOMER DRAWING

4805 (3/11)

LOC	DIST		REVISIONS			
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PCB HOLE LAYOUT

TPB11CGRA & TPB11FGRA
TPBF11CGRA & TPBF11FGRA

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PCB HOLE LAYOUT

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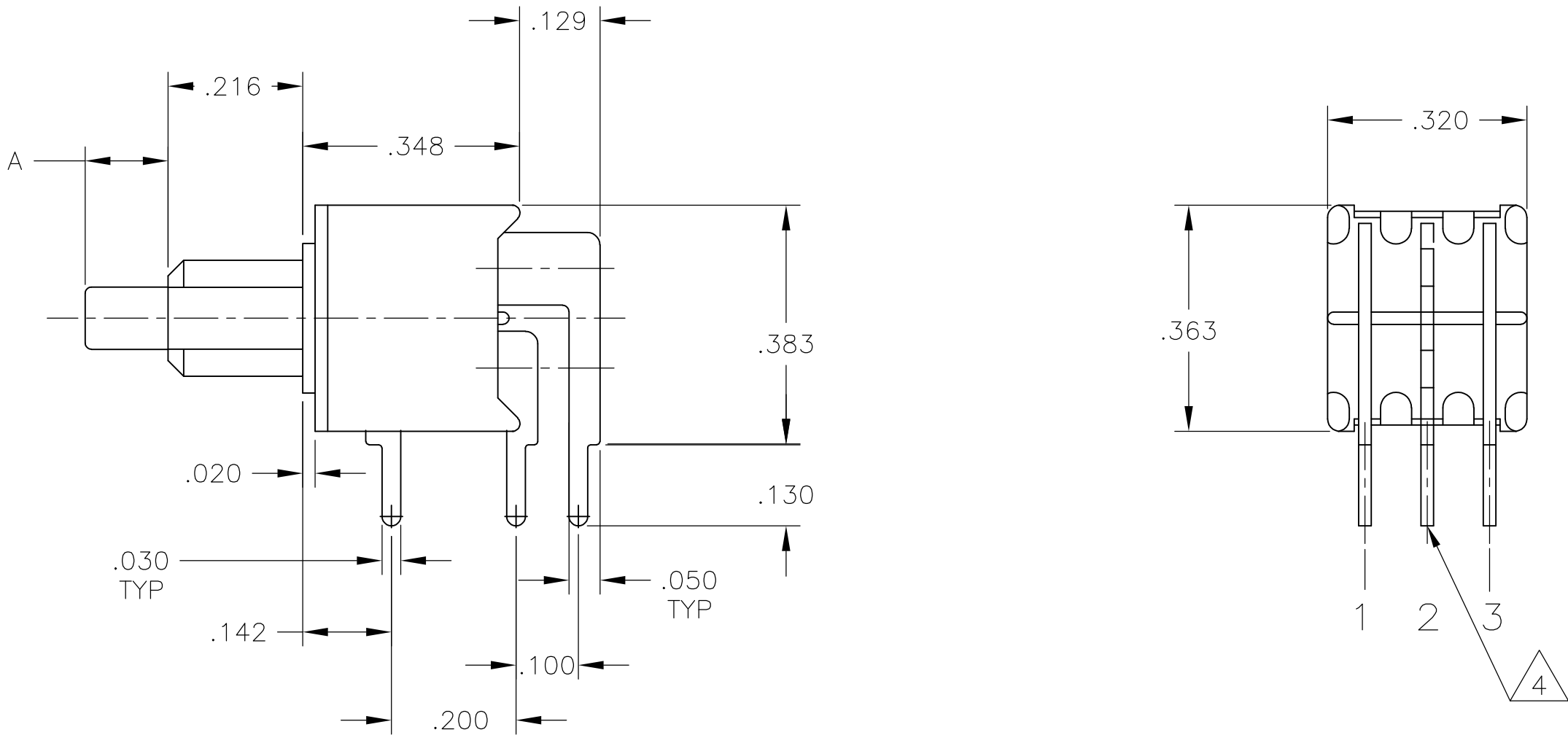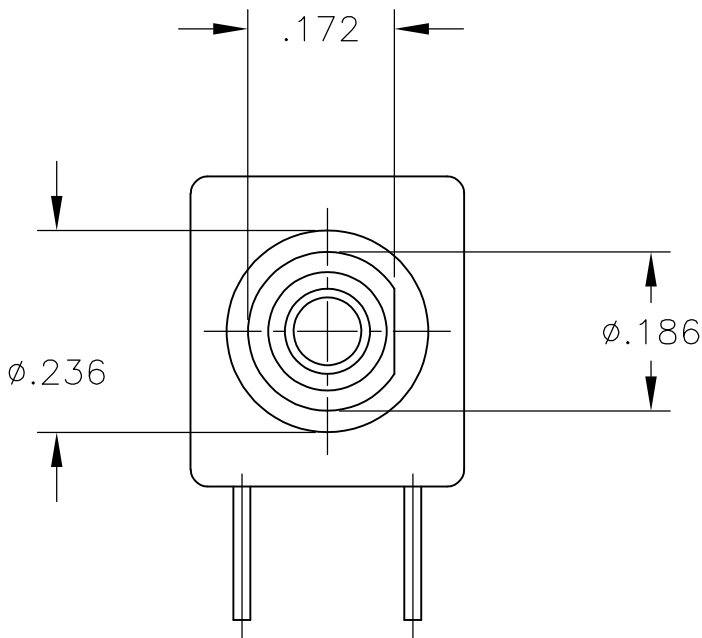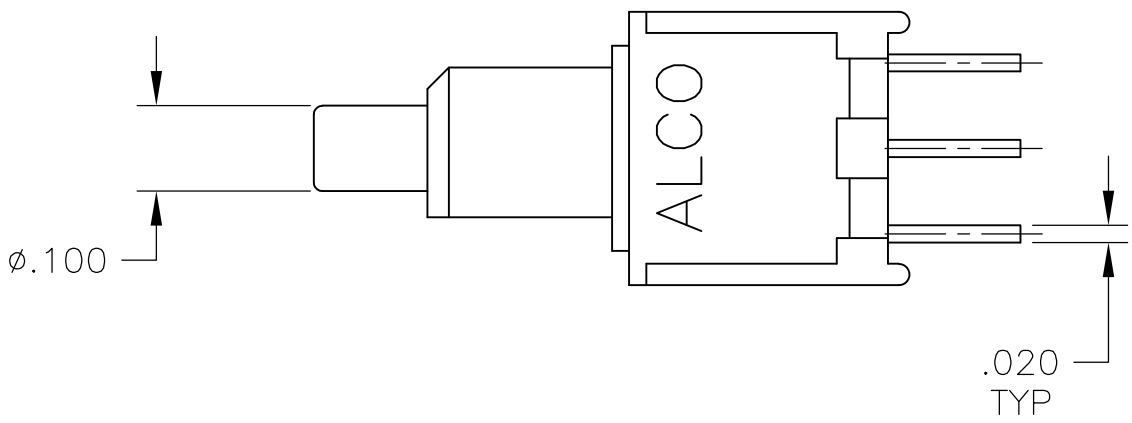
TPB21MGRA & TPB21RGRA

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN M.BINNER	20JUL05	≡TE	TE Connectivity
DIMENSIONS: INCHES	CHK M.ZITTO	21JUL05		
	APVD M.ZITTO	21JUL05	NAME	

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC	± –
1 PLC	± –
2 PLC	± –
3 PLC	± .010
4 PLC	± –
ANGLES	± –

PRODUCT SPEC
–

APPLICATION SPEC
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PUSHBUTTON SWITCH, TPB SERIES

–

MATERIAL –	FINISH –	WEIGHT –	SIZE A1	CAGE CODE 00779	DRAWING NO C-1825097	RESTRICTED TO –
CUSTOMER DRAWING			SCALE 4:1	SHEET 3 OF 6		REV A2

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

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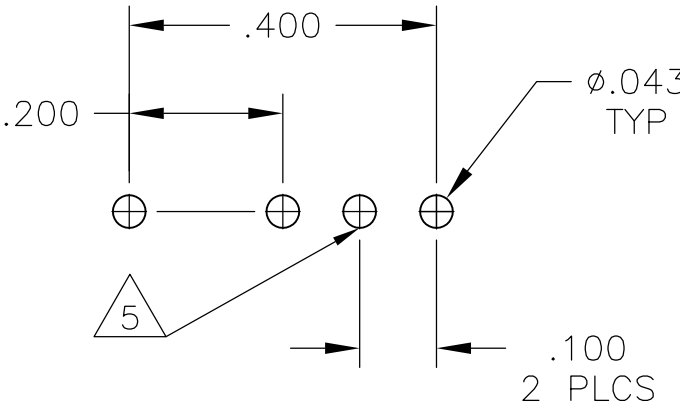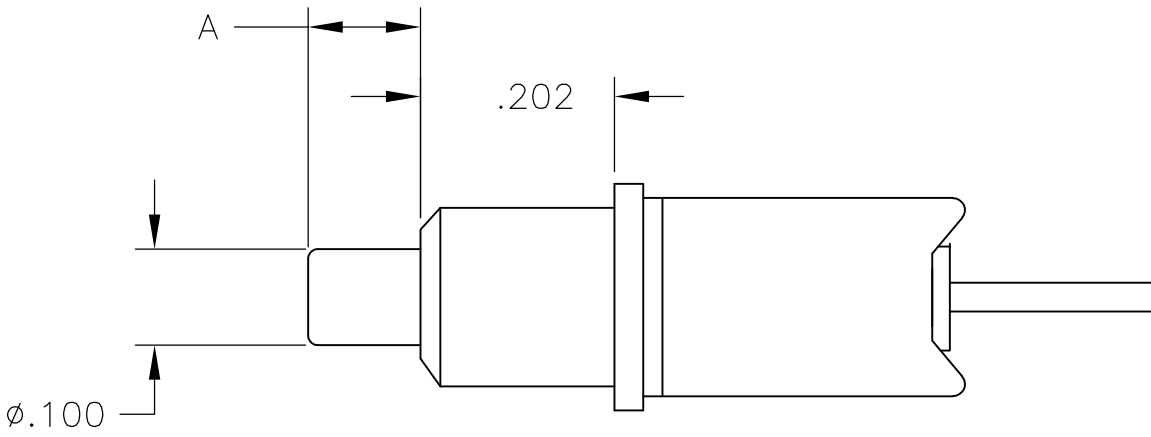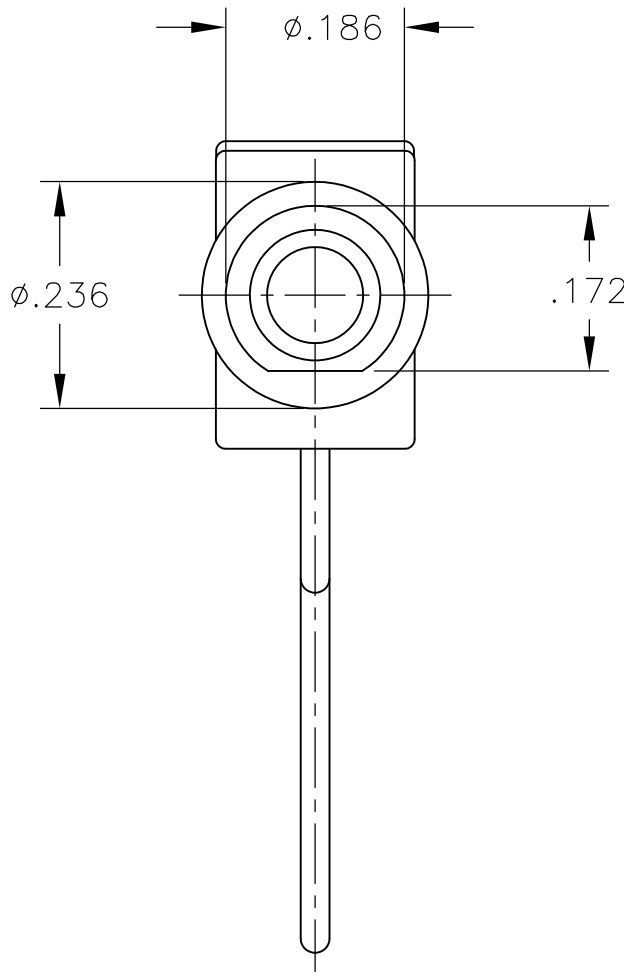
PCB HOLE LAYOUT

TPB11CVRA & TPB11FGVRA

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DIMENSIONS:
INCHES

TOLERANCES UNLESS
OTHERWISE SPECIFIED:
0 PLC   ± —
1 PLC   ± —
2 PLC   ± —
3 PLC   ± .010
4 PLC   ± —
ANGLES   ± —

MATERIAL —   FINISH —

DWN M.BINNER   20JUL05
CHK M.ZITTO   21JUL05
APVD M.ZITTO   21JUL05
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

NAME
PUSHBUTTON SWITCH, TPB SERIES
—
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TE Connectivity

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-1825097 | RESTRICTED TO —
SCALE 4:1 | SHEET 4 OF 6 | REV A2

CUSTOMER DRAWING

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

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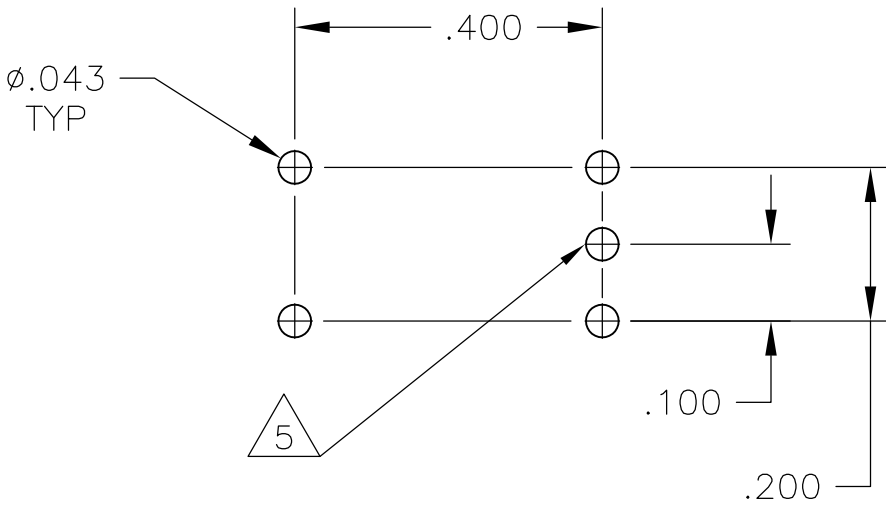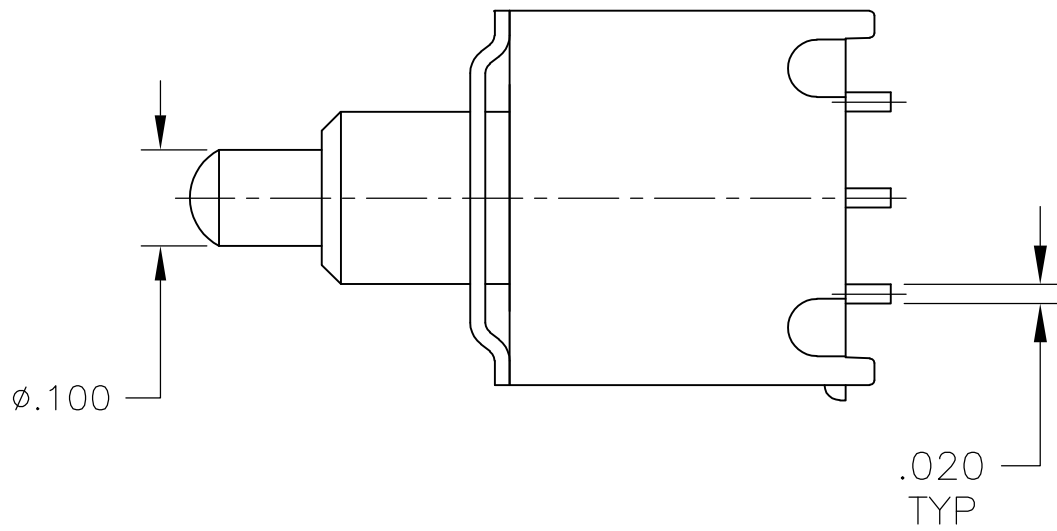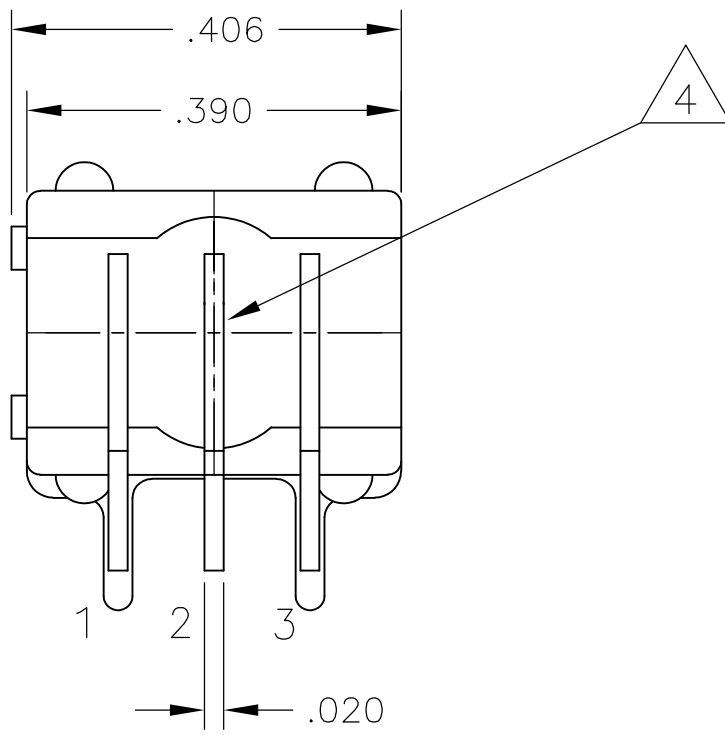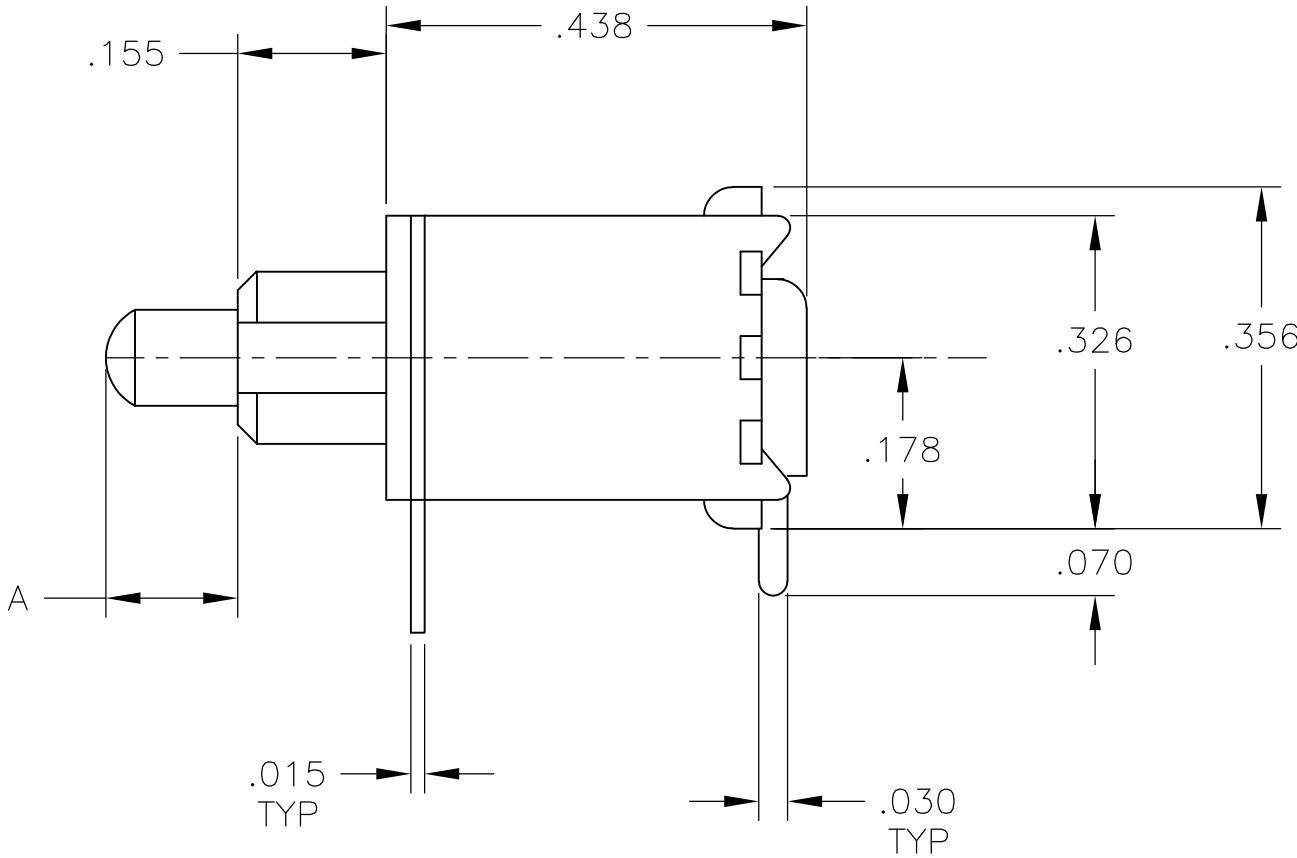
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PCB HOLE LAYOUT

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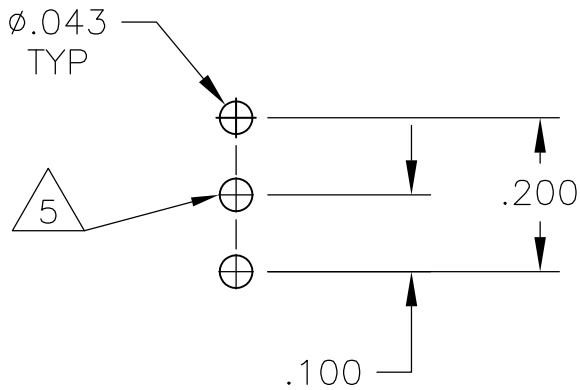
TPB11CGPCES & TPB11FGPCES
TPBF11CGPCES & TPBF11FGPCES

DIMENSIONS:
INCHES

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC	±	—
1 PLC	±	—
2 PLC	±	—
3 PLC	±	.010
4 PLC	±	—
ANGLES	±	—

MATERIAL — FINISH —

DWN M.BINNER 20JUL05
CHK M.ZITTO 21JUL05
APVD M.ZITTO 21JUL05

NAME

PRODUCT SPEC —

APPLICATION SPEC —

WEIGHT —

TE Connectivity

PUSHBUTTON SWITCH, TPB SERIES

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1825097	—

CUSTOMER DRAWING

SCALE 4:1   SHEET 5 OF 6   REV A2

4805 (3/11)

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PCB HOLE LAYOUT

∅.043 TYP

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TPB11CGRAES & TPB11FGRAES
TPBF11CGRAES & TPBF11FGRAES

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DIMENSIONS:
INCHES

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC   ± —
1 PLC   ± —
2 PLC   ± —
3 PLC   ± .010
4 PLC   ± —
ANGLES   ± — ± —

MATERIAL —   FINISH —

DWN M.BINNER 20JUL05
CHK M.ZITTO   21JUL05
APVD M.ZITTO 21JUL05
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

≡TE   TE Connectivity

NAME
PUSHBUTTON SWITCH, TPB SERIES
—

SIZE A1 CAGE CODE 00779 DRAWING NO ©–1825097   RESTRICTED TO —

CUSTOMER DRAWING   SCALE 4:1   SHEET 6 OF 6   REV A2

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