

8

7

6

5

4

3

2

1

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

ALL RIGHTS RESERVED.

LOCAD

DIST00

REVISONS

REV

LTR

DESCRIPTION

DATE

DWN

APVD

A1

REVISED PER ECO-11-004820

11MAR11

RK

HMR

MATERIALS

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, VRA (GOLD)	BRASS	GOLD OVER NICKEL IN CONTACT AREA, TIN OVER NICKEL IN SOLDER AREA
TERMINAL, WIRE LUG (SILVER)	SILVER CLAD COPPER	SILVER OVER NICKEL
TERMINAL, PC (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 (B&C BUSHINGS ONLY)	STEEL	TIN OVER COPPER
BUSHING	BRASS	NICKLE OVER COPPER
MOUNTING NUT	BRASS	NICKEL
LOCKWASHER	STEEL	NICKEL
ES HOUSING	NYLON 6/6, NATURAL, UL94 V-2	
ES BOOT	VINYL PLASTISOL, BLACK	

PART NUMBER MATRIX

MODEL	ACTUATOR	POLES	RATING	FUNCTION	PLATING	TERMINATIONS	PROCESS SEAL	BUTTON COLOR	04
TPC	BLANK=EXTENDED	1	1=GOLD .4VA	C=SPST MOMENTARY	G=GOLD	BLANK=WIRE LUG	ES=PROCESS SEALED	0=BLACK	
	F=FLUSH	2	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		VRA=VERTICAL RIGHT ANGLE			
NOTES:									
1. AVAILABLE WITH B & C BUSHINGS ONLY									
2. SILVER ONLY AVAILABLE IN WIRE LUG AND PC TERMINATIONS									
3. RAES AVAILABLE WITH B & C BUSHING ONLY									
4. VRA ONLY AVAILABLE IN SINGLE POLE									

SPECIFICATIONS

RATING	GOLD: .4VA MAX. @ 20VDC OR PEAK AS RESISTIVE SILVER: 1A @ 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 LEVEL
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

4. CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

P/N	ALCO P/N	FLUSH ACTUATOR	POLES	THROWS	PLATING	TERMINALS	PROCESS SEALED	BUTTON COLOR	FUNCTION		CONNECTED TERMINALS		DIM A
1825098-1	TPC11CGPC004	NO	1	1	GOLD	PC	NO	BLACK	OFF	MOM	OFF	1-3	.133
1825098-2	TPC11CGRA004	NO	1	1	GOLD	RIGHT ANGLE	NO	BLACK	OFF	MOM	OFF	1-3	.133
1825098-3	TPC11CGRA204	NO	1	1	GOLD	RIGHT ANGLE	NO	RED	OFF	MOM	OFF	1-3	.133
1825098-4	TPC11CGVRA004	NO	1	1	GOLD	VRA	NO	BLACK	OFF	MOM	OFF	1-3	N/A
1825098-5	TPC11FGPC004	NO	1	2	GOLD	PC	NO	BLACK	ON	MOM	1-2	2-3	.133
1825098-6	TPC11FGRA004	NO	1	2	GOLD	RIGHT ANGLE	NO	BLACK	ON	MOM	1-2	2-3	.133
1825098-7	TPC11FGVRA004	NO	1	2	GOLD	VRA	NO	BLACK	ON	MOM	1-2	2-3	N/A
1825098-8	TPC11FGVRA204	NO	1	2	GOLD	VRA	NO	RED	ON	MOM	1-2	2-3	N/A
1825098-9	TPC13C004	NO	1	1	SILVER	WIRE LUG	NO	BLACK	OFF	MOM	OFF	1-3	.133
1-1825098-0	TPC13C204	NO	1	1	SILVER	WIRE LUG	NO	RED	OFF	MOM	OFF	1-3	.133
1-1825098-1	TPC13CPC004	NO	1	1	SILVER	PC	NO	BLACK	OFF	MOM	OFF	1-3	.133
1-1825098-2	TPC13F004	NO	1	2	SILVER	WIRE LUG	NO	BLACK	ON	MOM	1-2	2-3	.133
1-1825098-3	TPC21MGRA204	NO	2	1	GOLD	RIGHT ANGLE	NO	RED	OFF	MOM	OFF	1-3, 4-6	N/A
1-1825098-4	TPC21RGPC004	NO	2	2	GOLD	PC	NO	BLACK	ON	MOM	1-2, 4-5	2-3, 5-6	N/A
1-1825098-5	TPC23M004	NO	2	1	SILVER	WIRE LUG	NO	BLACK	OFF	MOM	OFF	1-3, 4-6	N/A
1-1825098-6	TPC23R204	NO	2	2	SILVER	WIRE LUG	NO	RED	ON	MOM	1-2, 4-5	2-3, 5-6	N/A
1-1825098-7	TPCF11CGPC004	YES	1	1	GOLD	PC	NO	BLACK	OFF	MOM	OFF	1-3	.000
1-1825098-8	TPCF11CGRA004	YES	1	1	GOLD	RIGHT ANGLE	NO	BLACK	OFF	MOM	OFF	1-3	.000
1-1825098-9	TPCF11FGRA004	YES	1	2	GOLD	RIGHT ANGLE	NO	BLACK	ON	MOM	1-2	2-3	.000
2-1825098-0	TPCF13C004	YES	1	1	SILVER	WIRE LUG	NO	BLACK	OFF	MOM	OFF	1-3	.000
2-1825098-1	TPCF13C004	YES	1	2	SILVER	WIRE LUG	NO	BLACK	ON	MOM	1-2	2-3	.000

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± .010

1 PLC ± .010

2 PLC ± .010

3 PLC ± .010

4 PLC ± .010

ANGLES ± .5°

MATERIAL

FINISH

DWN RAGHU

CHK

APVD

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

12-5-05

NAME

SIZE CAGE CODE DRAWING NO

RESTRICTED TO

TE Connectivity

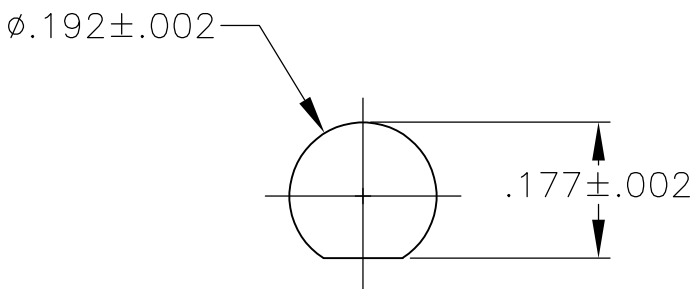
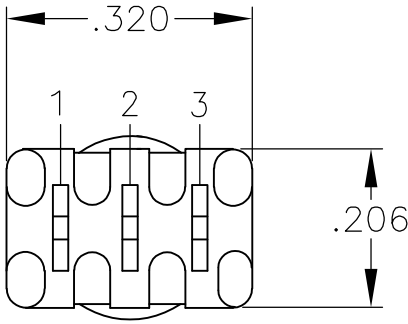
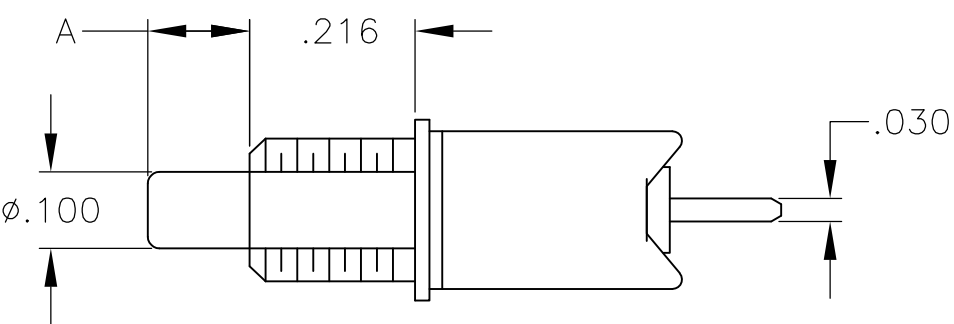
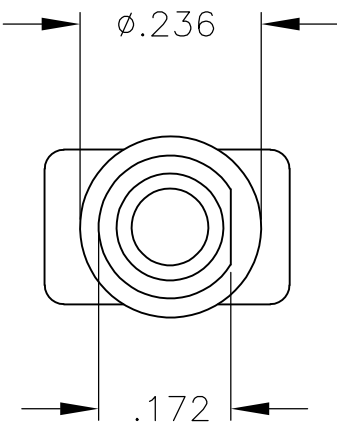
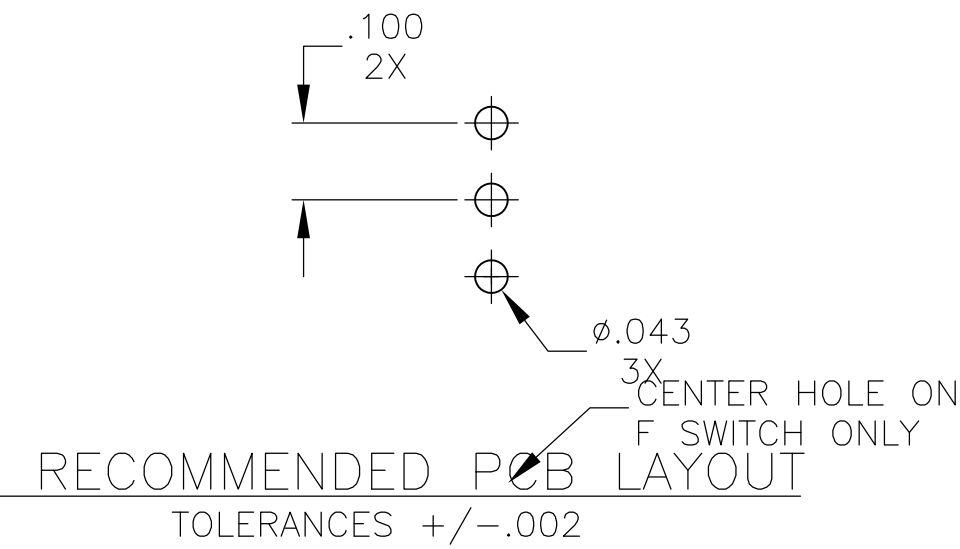
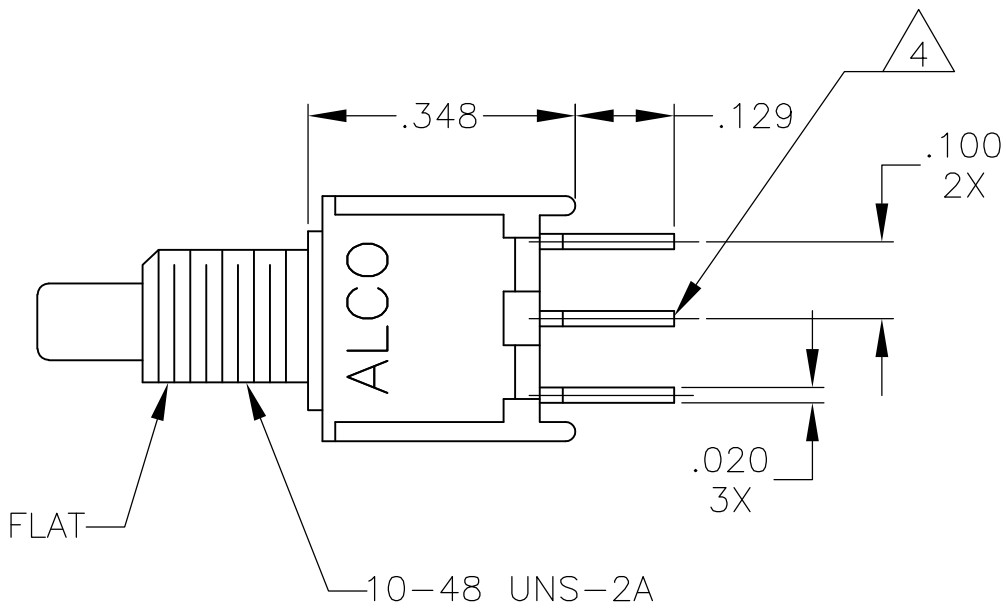
PUSHBUTTON SWITCH, TPC SERIES

1825098

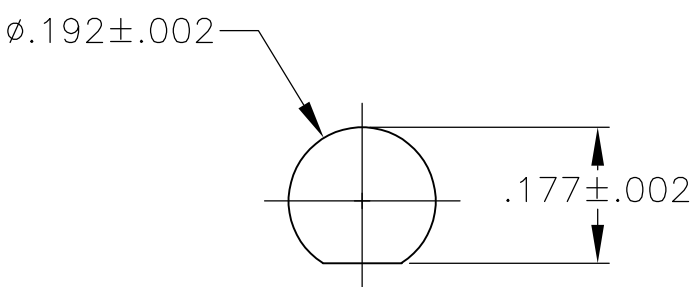
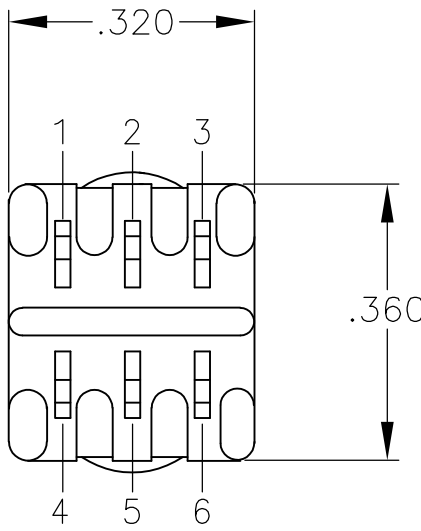
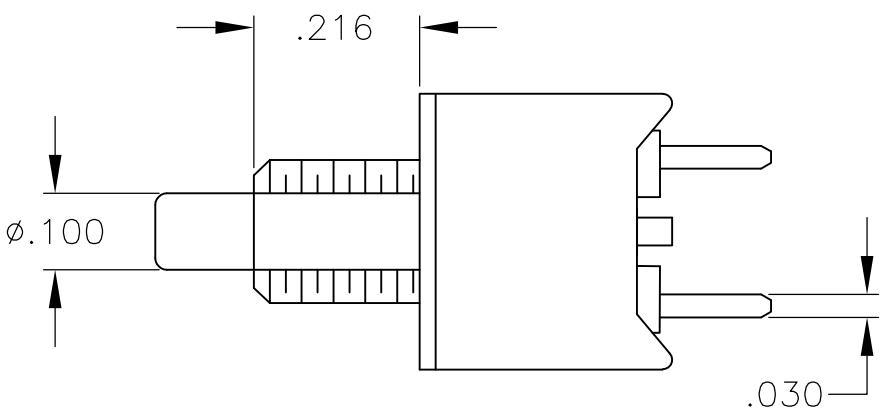
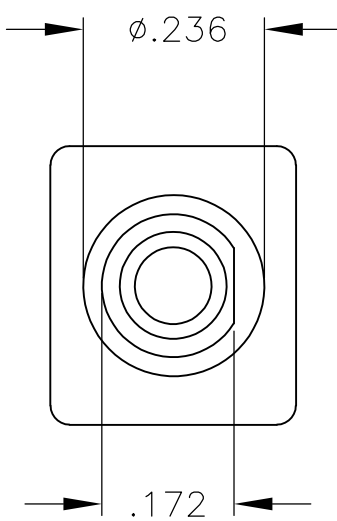
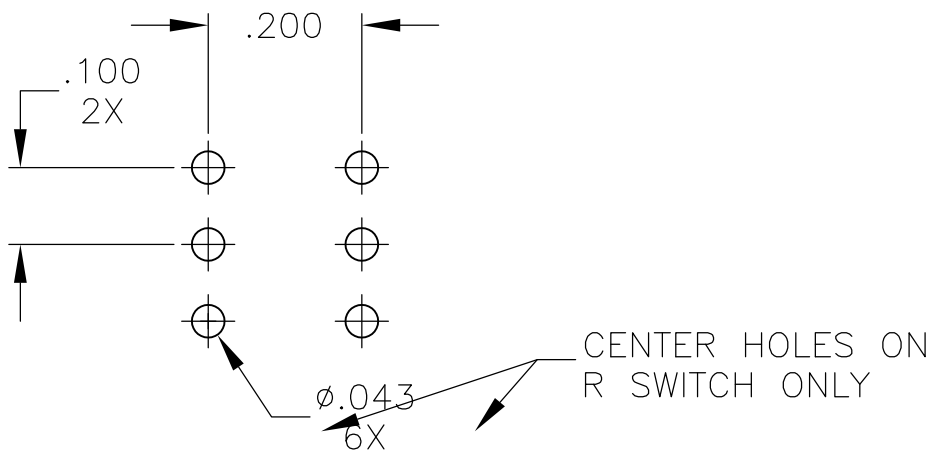
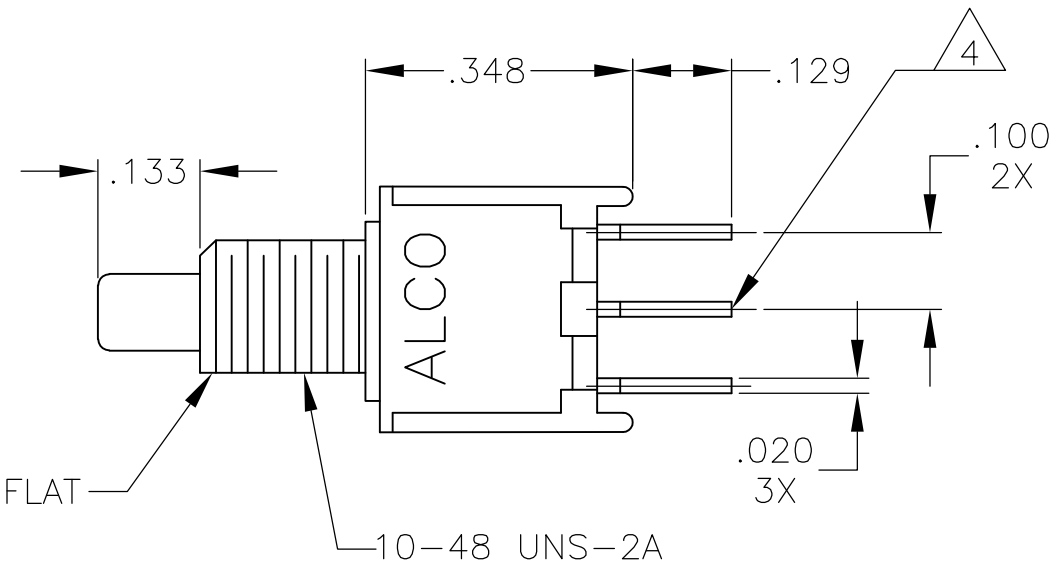
SCALE 4:1 SHEET 1 OF 5 REV A1

4805 (3/11)

LOC		DIST		REVISIONS				
AD	00	FR	LTR	DESCRIPTION		DATE	DWN	APVD
		-	-	SEE SHEET 1		-	-	-



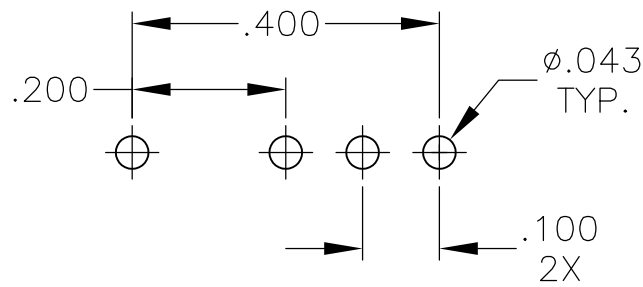
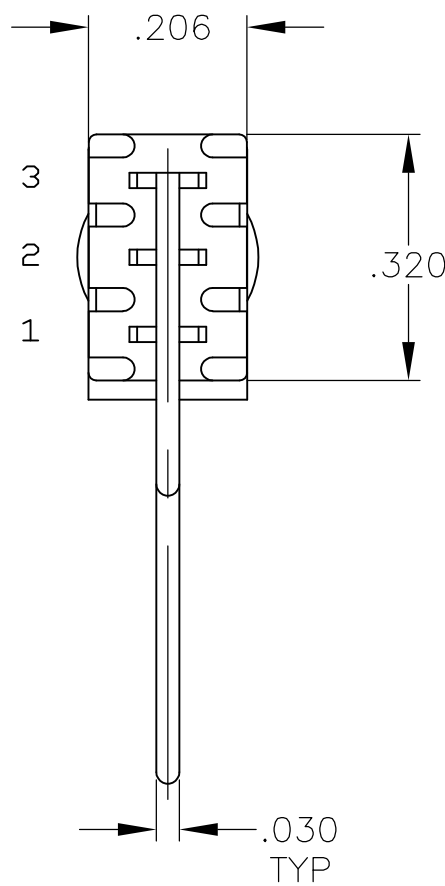
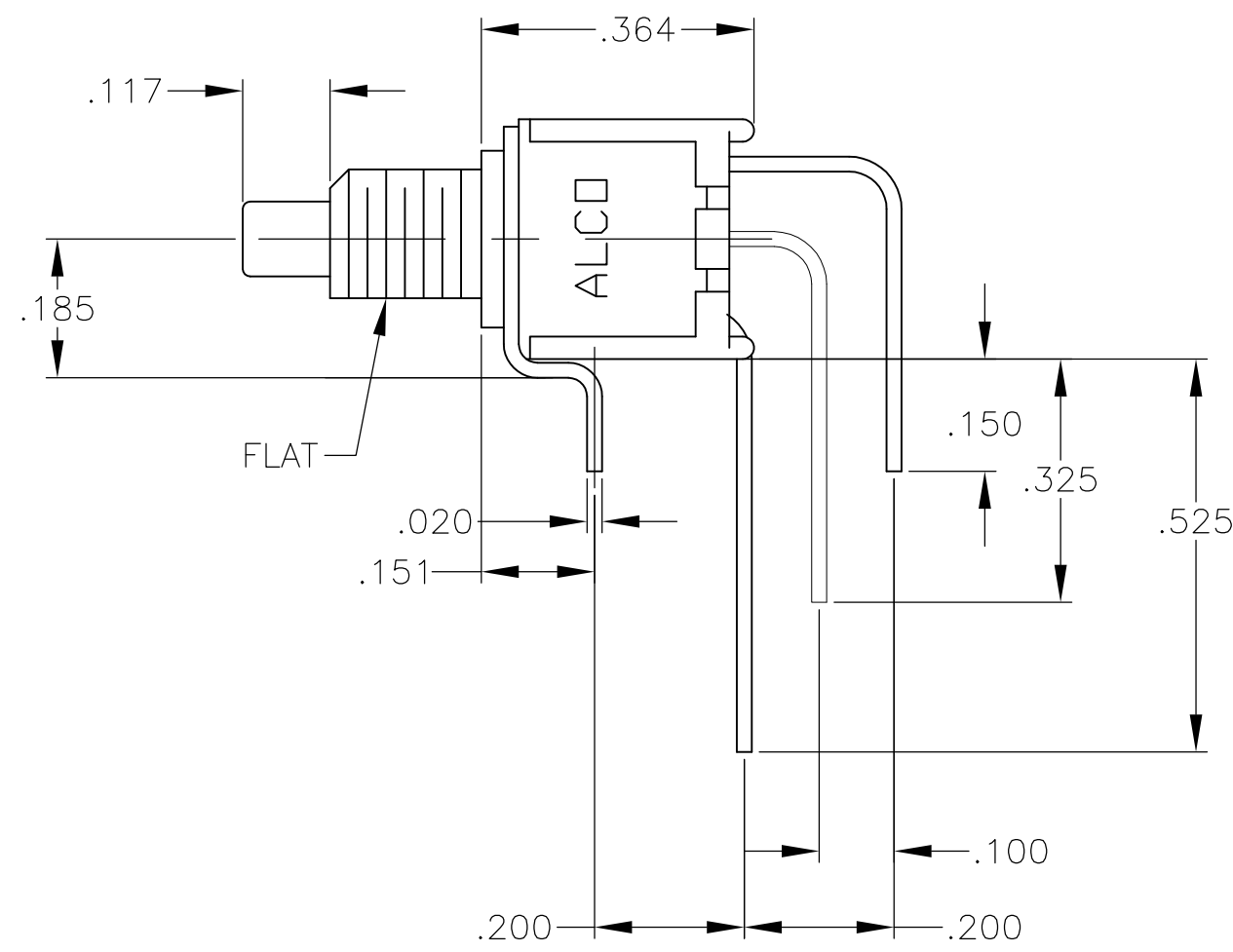
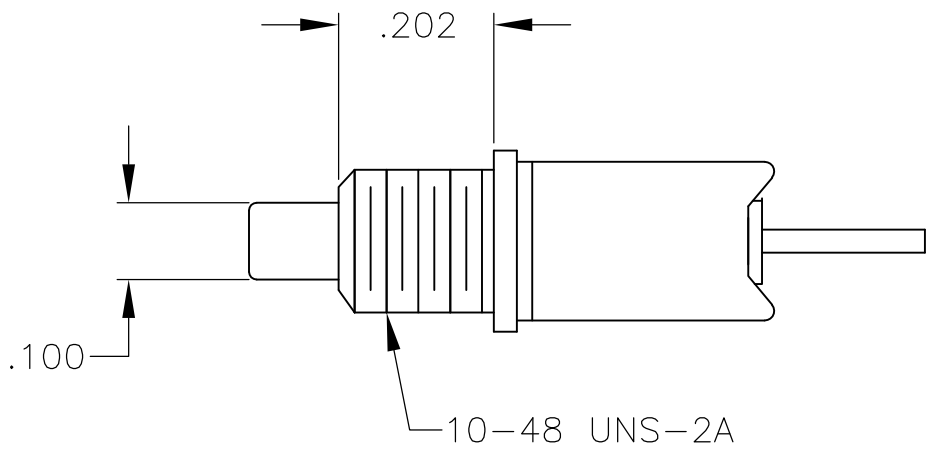
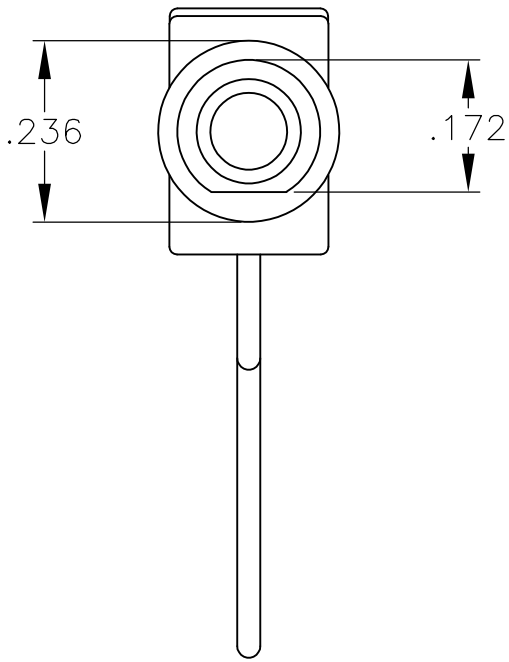
TPC11CGPC, TPC11FGPC
TPCF11CGPC, TPC13CPC



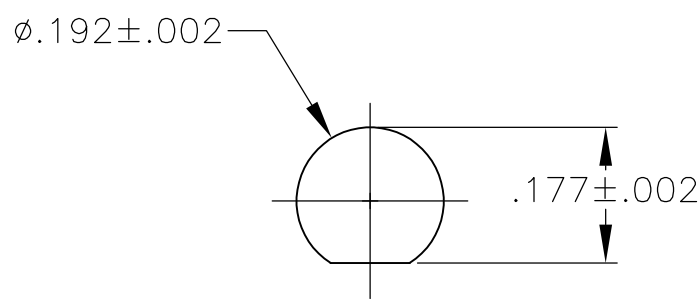
TPC21RGPC

THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN RAGHU	12-5-05	 TE Connectivity			
			CHK -	-				
DIMENSIONS: INCHES 	TOLERANCES UNLESS OTHERWISE SPECIFIED:			NAME PUSHBUTTON SWITCH, TPC SERIES				
	0 PLC	±	-	PRODUCT SPEC				
	1 PLC	±	-	APPLICATION SPEC				
	2 PLC	±	-					
	3 PLC	±	.010					
	4 PLC	±	-	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO	
	ANGLES FINISH ± 3°			WEIGHT	A1 00779 C 1825098			
MATERIAL -			-			CUSTOMER DRAWING		
						SCALE 4:1	SHEET 2 OF 5	REV A1

LOC	DIST	REVISIONS				
AD	00	REV	LTR	DESCRIPTION	DATE	OWN
				SEE SHEET 1		



RECOMMENDED PCB LAYOUT
TOLERANCES +/- .002

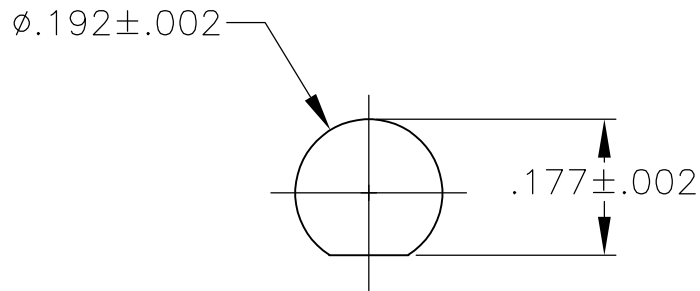
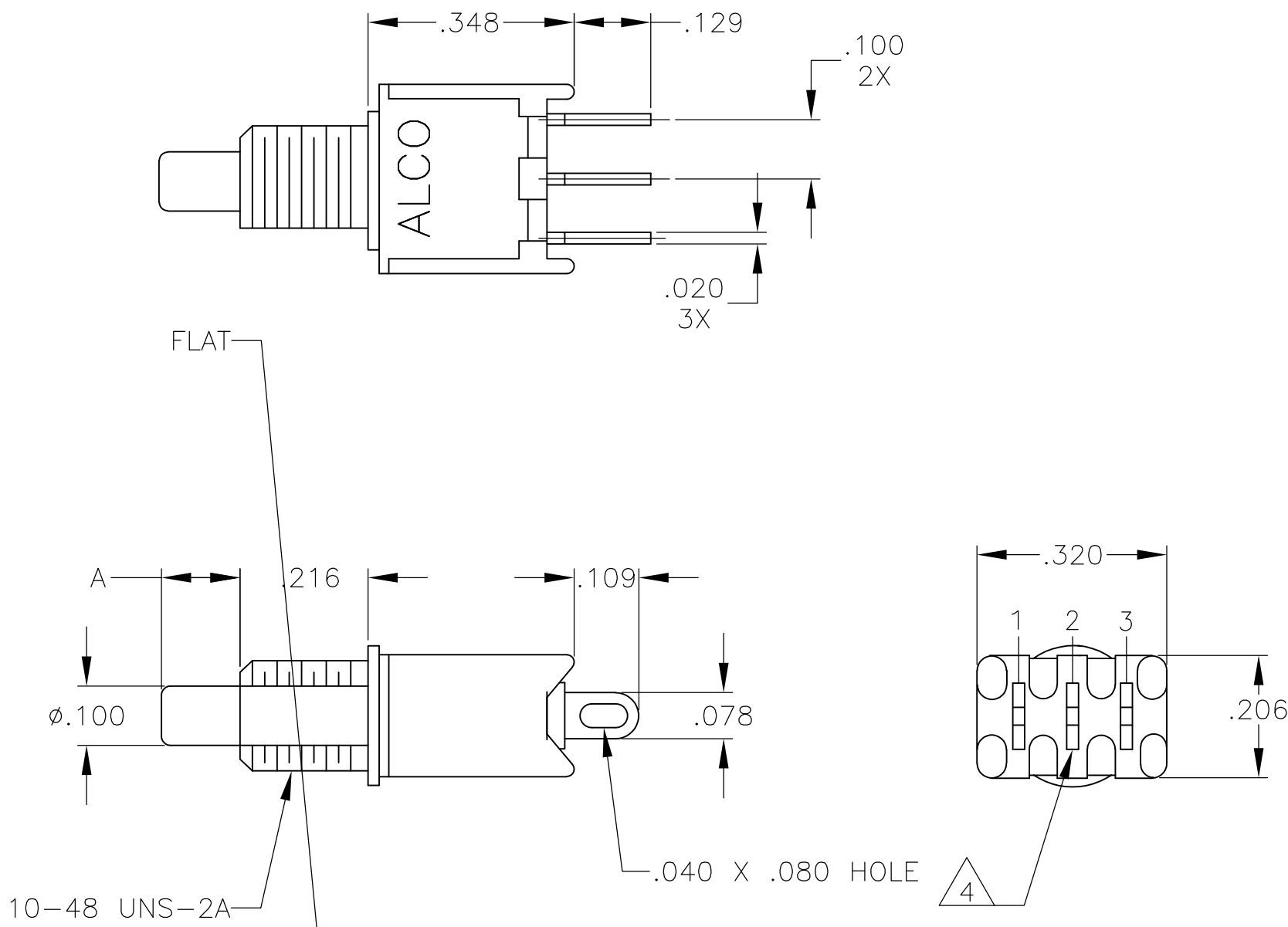
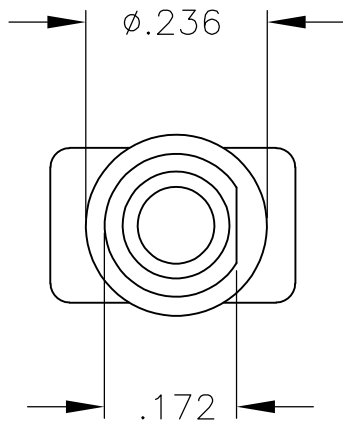


RECOMMENDED PANEL LAYOUT

TPC11CGVRA, TPC11FGVRA

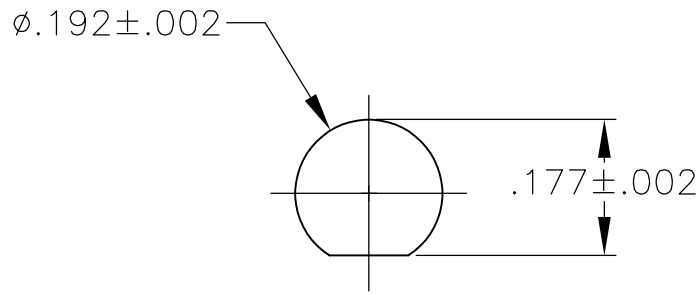
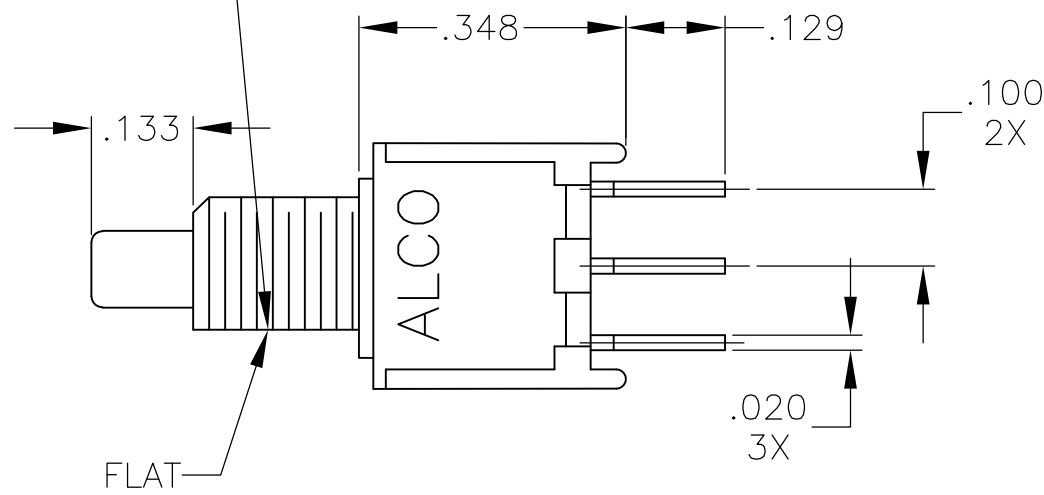
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RAGHU	12-5-05	TE Connectivity		
DIMENSIONS: INCHES		CHK —	—	NAME PUSHBUTTON SWITCH, TPC SERIES		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD —	—	PRODUCT SPEC —		
0. PLC ± .010 1. PLC ± .010 2. PLC ± .010 3. PLC ± .010 4. PLC ± .010 ANGLES ± .5°		APPLICATION SPEC —		RESTRICTED TO —		
MATERIAL —		WEIGHT —		SIZE A1		
FINISH —		CUSTOMER DRAWING		SCALE 4:1		
				SHEET 4		
				OF 5		
				REV A1		

LOC	DIST	REVISIONS				
AD	00	P	LTR	DESCRIPTION	DATE	DWN
						APVD
		-	-	SEE SHEET 1	-	-



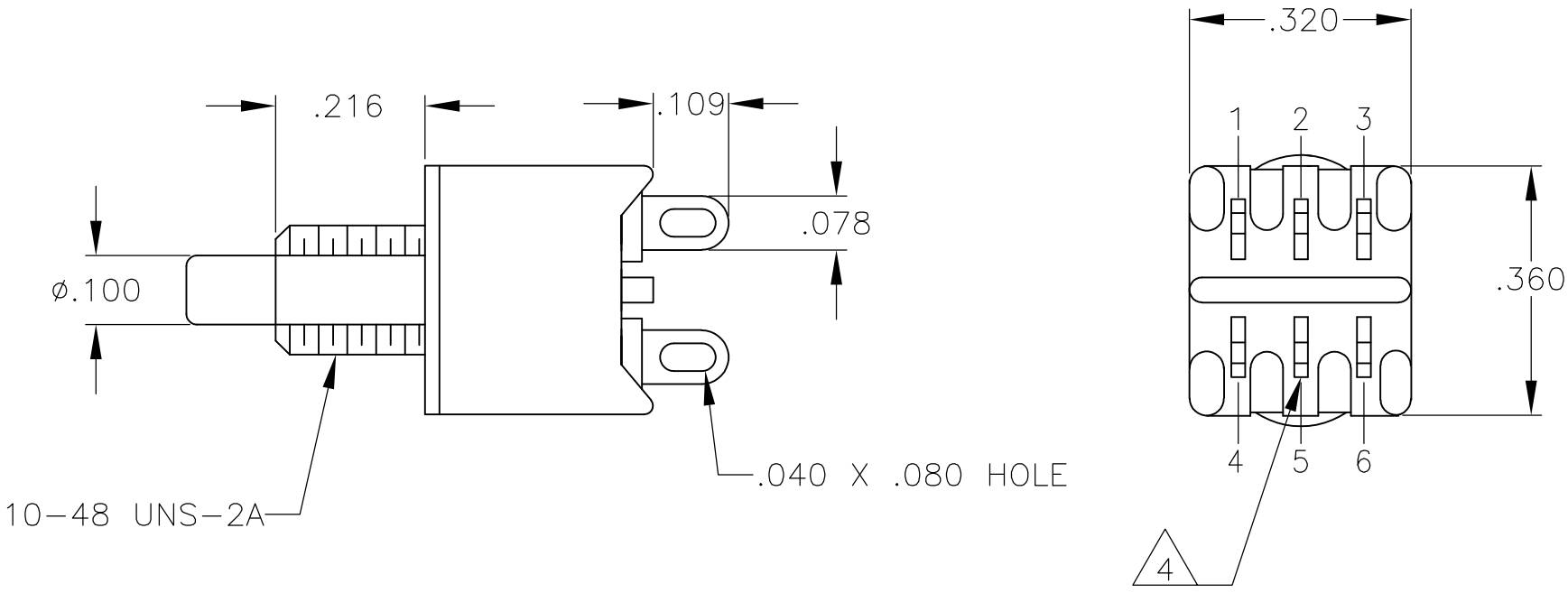
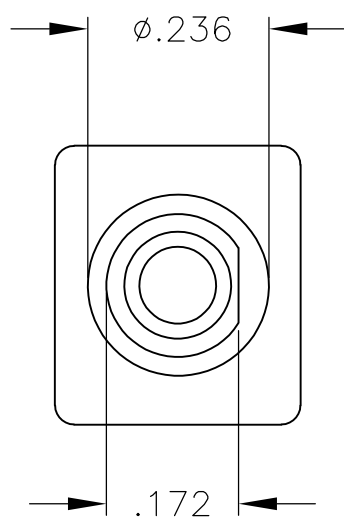
RECOMMENDED PANEL LAYOUT

TPC13C, TPC13F,
TPCF13C, TPC13F



RECOMMENDED PANEL LAYOUT

TPC23M, TPC23R



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RAGHU	12-5-05	TE Connectivity		
		CHK	-			
		APVD	-	NAME		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC		
				APPLICATION SPEC		
				RESTRICTED TO		
MATERIAL		FINISH		CUSTOMER DRAWING		
				SCALE 4:1 SHEET 5 OF 5 REV A1		