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RELEASED FOR PUBLICATION

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LOCAD

DIST00

REVISONS

| P  | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|----|-----|---------------------------|-----------|-----|------|
| A2 |     | REVISED PER ECO-15-004048 | 17MAR2015 | NK  | RH   |

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<br>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<br>.4 VA, 2 POLES: 80,000<br>1 A, 1 POLE: 60,000<br>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                                                                     |

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TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON SWITCHES

ALL MATERIALS AND FINISHES COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS)

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

CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

|          |           |               |     |   |   |        |             |    |       |     |     |          |          |      |
|----------|-----------|---------------|-----|---|---|--------|-------------|----|-------|-----|-----|----------|----------|------|
| OBSOLETE | 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 |
|          | 1825098-0 | TPC13C204     | NO  | 1 | 1 | SILVER | WIRE LUG    | NO | RED   | OFF | MOM | OFF      | 1-3      | .133 |
| OBSOLETE | 1825098-1 | TPC13CPC004   | NO  | 1 | 1 | SILVER | PC          | NO | BLACK | OFF | MOM | OFF      | 1-3      | .133 |
|          | 1825098-2 | TPC13F004     | NO  | 1 | 2 | SILVER | WIRE LUG    | NO | BLACK | ON  | MOM | 1-2      | 2-3      | .133 |
|          | 1825098-3 | TPC21MGRA204  | NO  | 2 | 1 | GOLD   | RIGHT ANGLE | NO | RED   | OFF | MOM | OFF      | 1-3, 4-6 | N/A  |
|          | 1825098-4 | TPC21RGPC004  | NO  | 2 | 2 | GOLD   | PC          | NO | BLACK | ON  | MOM | 1-2, 4-5 | 2-3, 5-6 | N/A  |
|          | 1825098-5 | TPC23M004     | NO  | 2 | 1 | SILVER | WIRE LUG    | NO | BLACK | OFF | MOM | OFF      | 1-3, 4-6 | N/A  |
|          | 1825098-6 | TPC23R204     | NO  | 2 | 2 | SILVER | WIRE LUG    | NO | RED   | ON  | MOM | 1-2, 4-5 | 2-3, 5-6 | N/A  |
|          | 1825098-7 | TPCF11CGPC004 | YES | 1 | 1 | GOLD   | PC          | NO | BLACK | OFF | MOM | OFF      | 1-3      | .000 |
|          | 1825098-8 | TPCF11CGRA004 | YES | 1 | 1 | GOLD   | RIGHT ANGLE | NO | BLACK | OFF | MOM | OFF      | 1-3      | .000 |
|          | 1825098-9 | TPCF11FGRA004 | YES | 1 | 2 | GOLD   | RIGHT ANGLE | NO | BLACK | ON  | MOM | 1-2      | 2-3      | .000 |
|          | 1825098-0 | TPCF13C004    | YES | 1 | 1 | SILVER | WIRE LUG    | NO | BLACK | OFF | MOM | OFF      | 1-3      | .000 |
| OBSOLETE | 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

0 PLC ± .010  
1 PLC ± .010  
2 PLC ± .010  
3 PLC ± .010  
4 PLC ± .010  
ANGLES ± .5°

MATERIAL -

DW RAGHU 12-5-05

CHK -

APVD -

NAME

PRODUCT SPEC

APPLICATION SPEC

WEIGHT -

CUSTOMER DRAWING

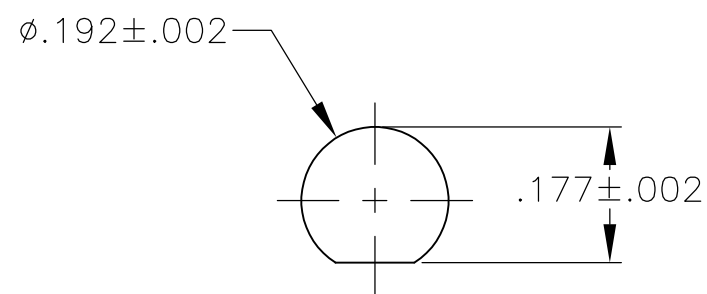
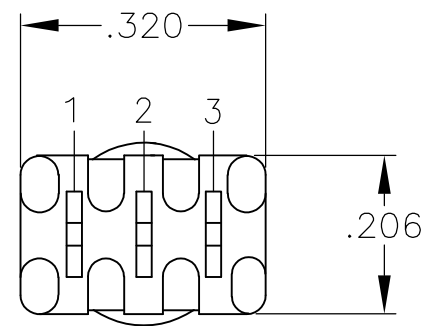
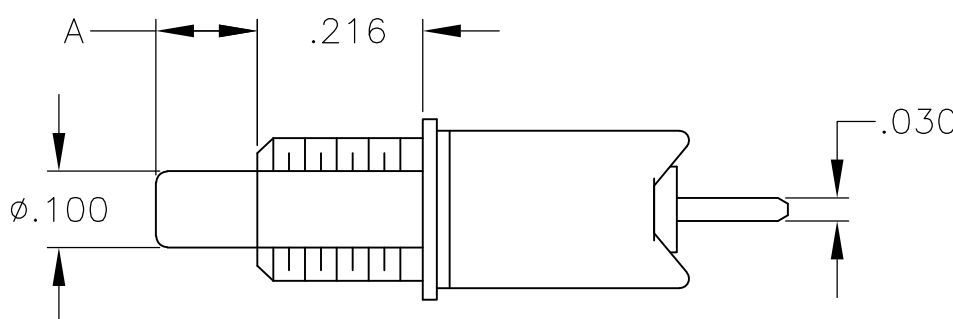
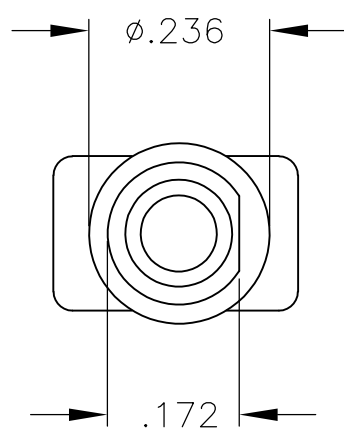
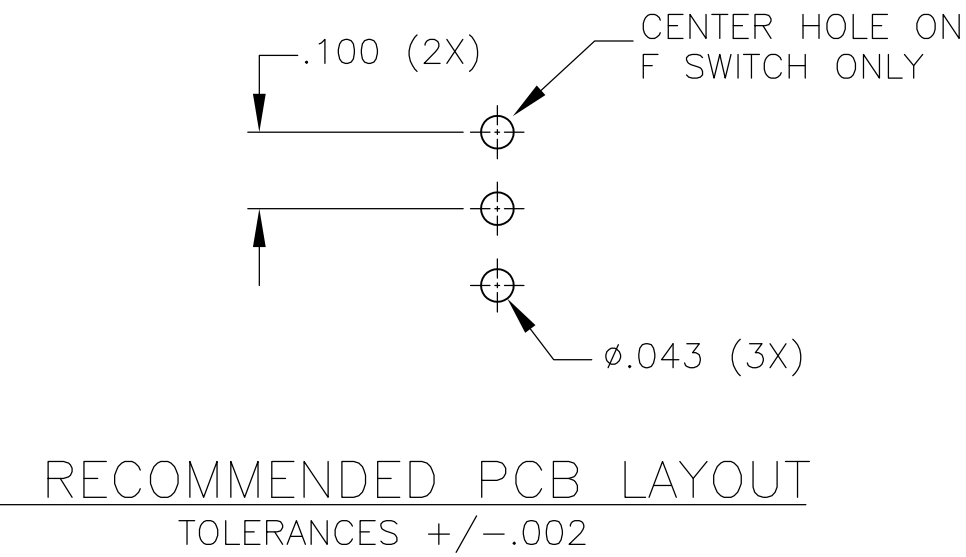
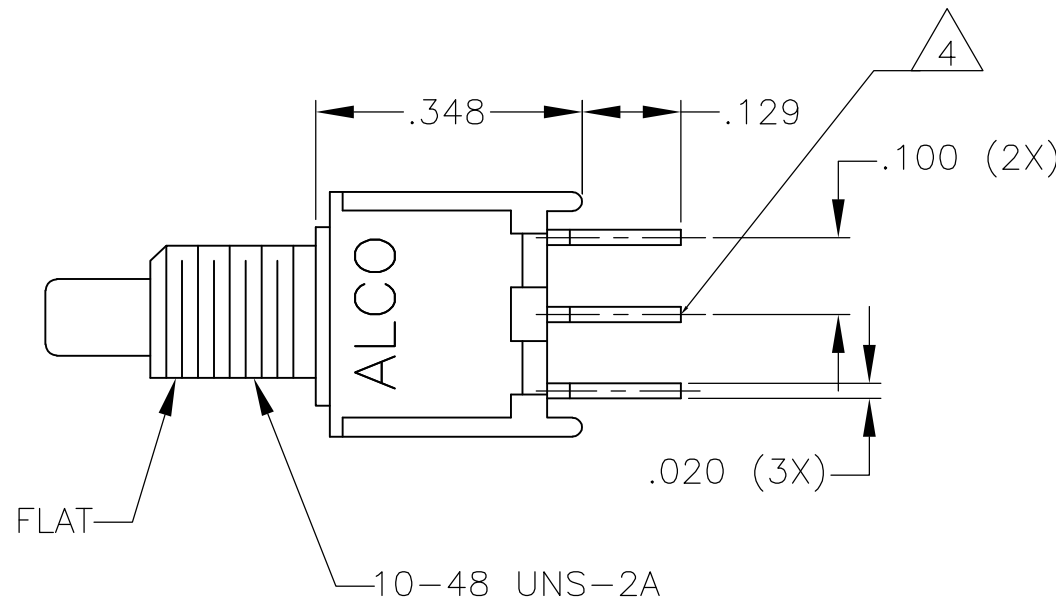
TE Connectivity

PUSHBUTTON SWITCH, TPC SERIES

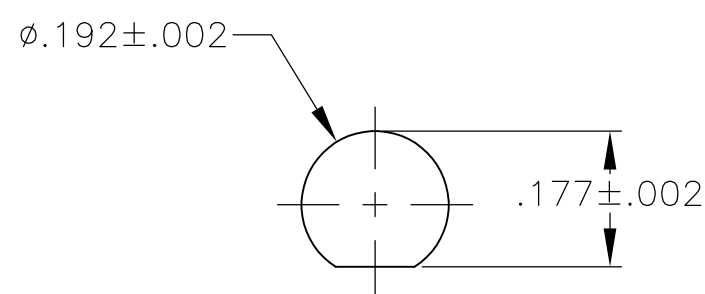
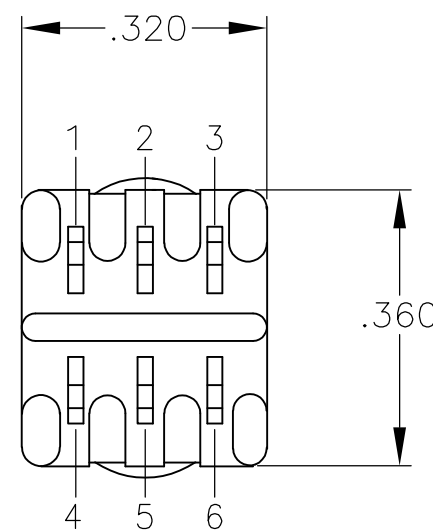
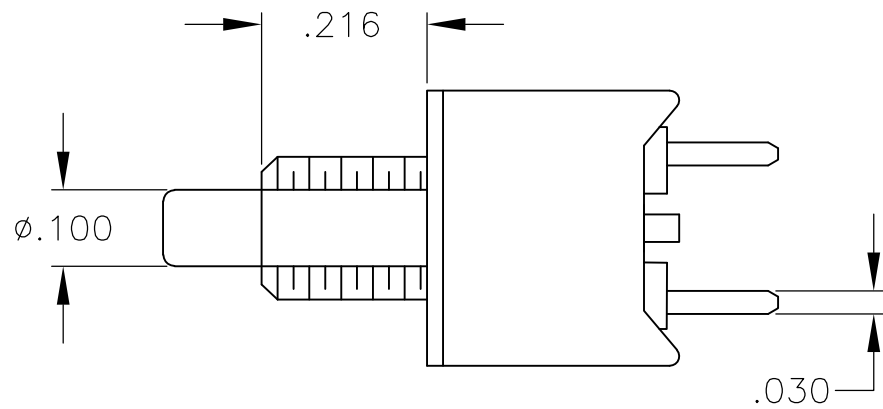
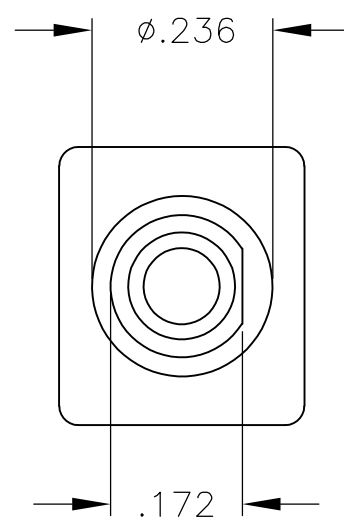
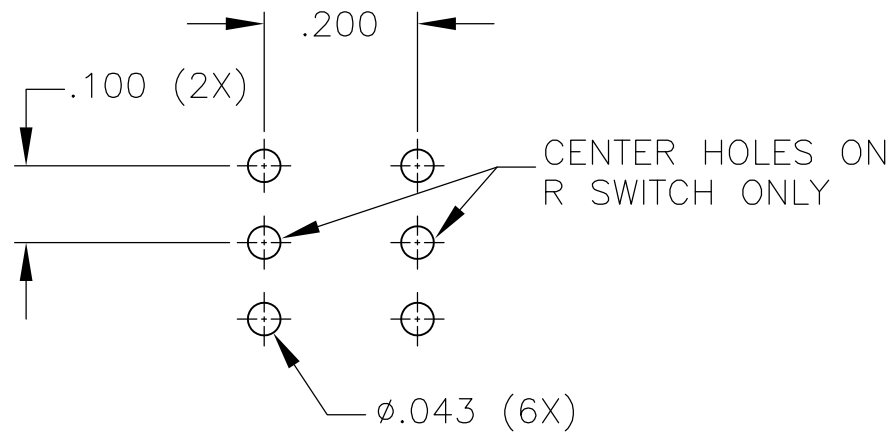
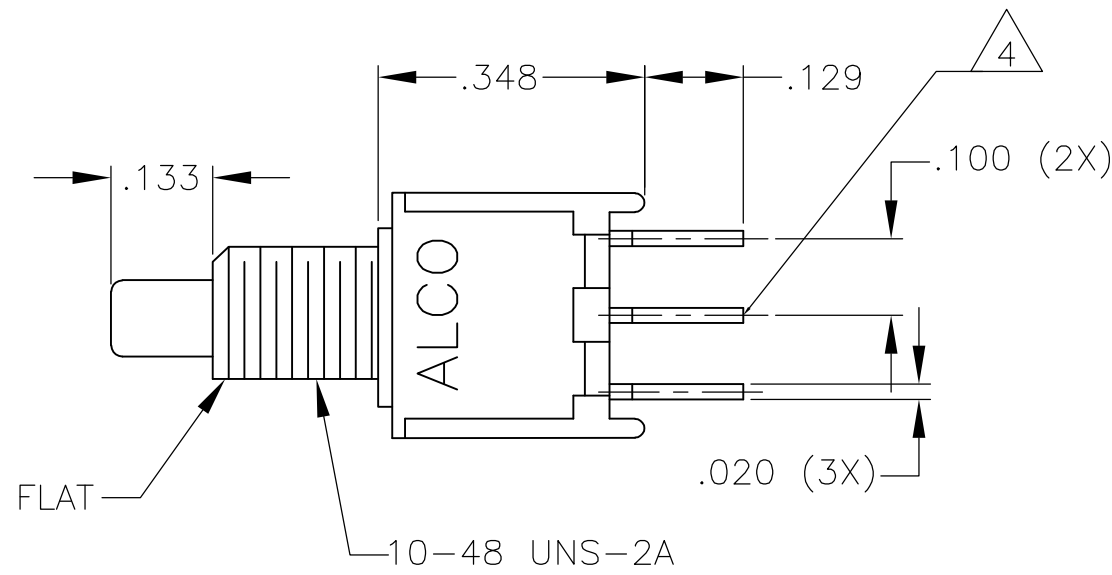
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SCALE 4:1 SHEET 1 OF 5 REV A2

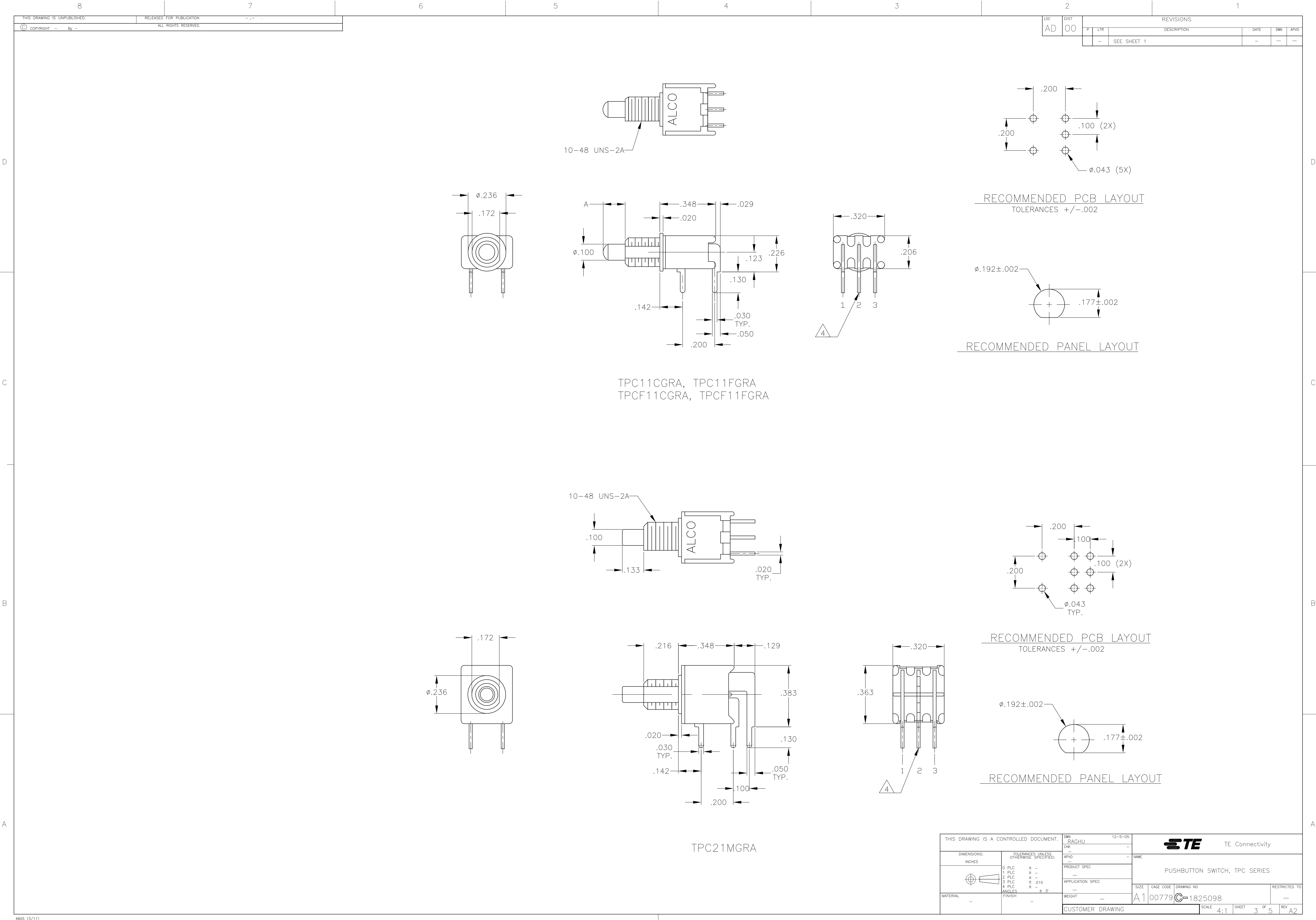
4805 (3/11)



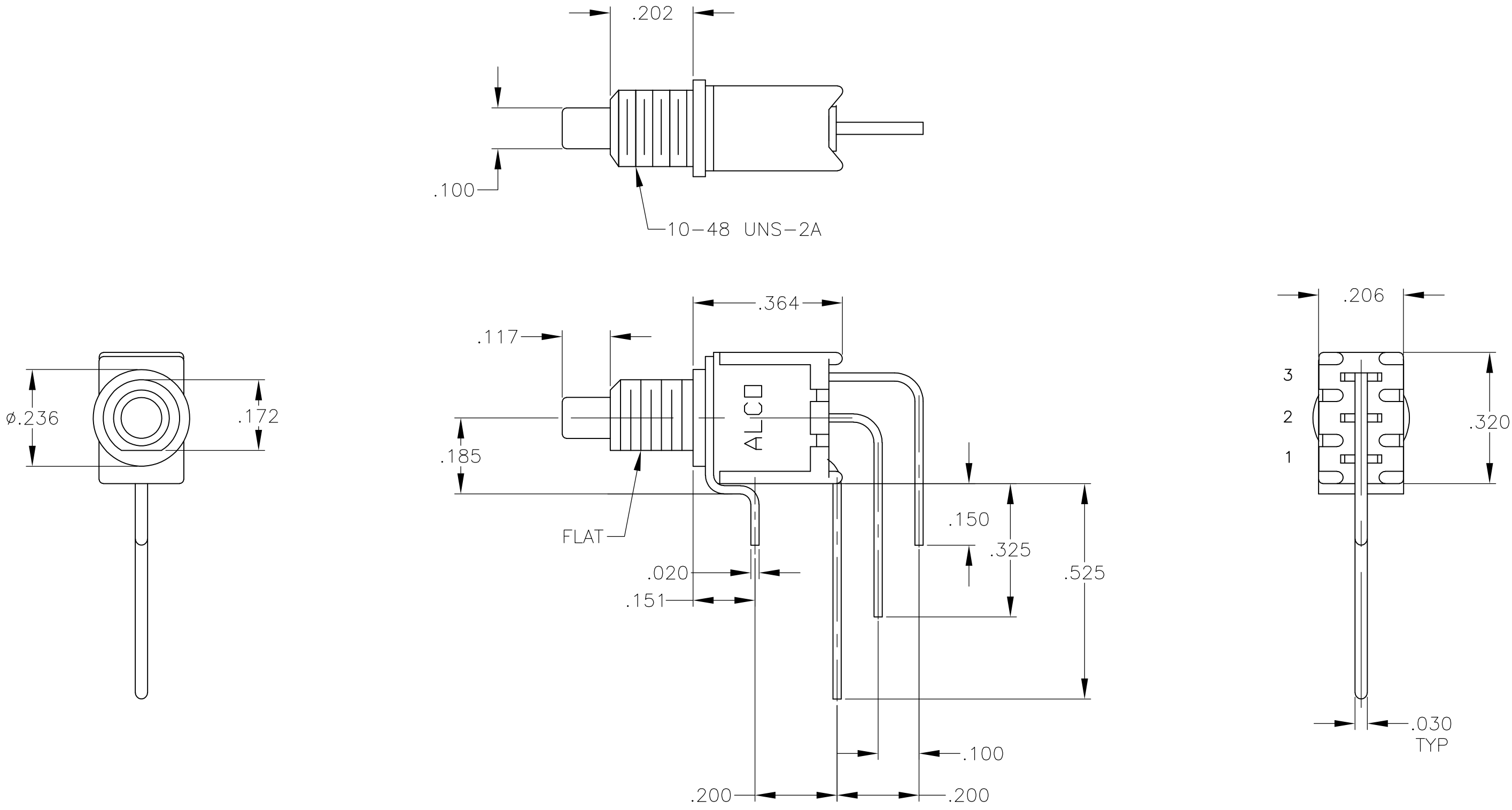
TPC11CGPC, TPC11FGPC  
TPCF11CGPC, TPC13CPC



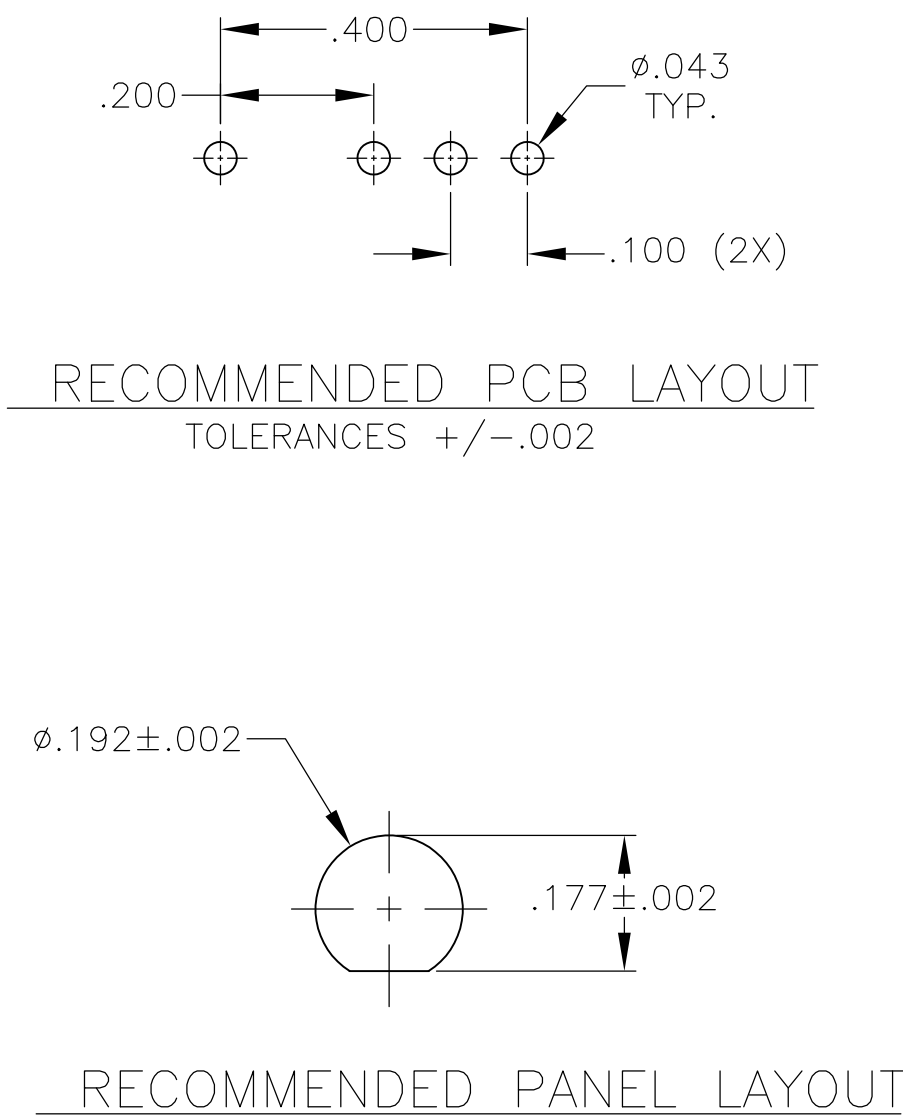
TPC21RGPC



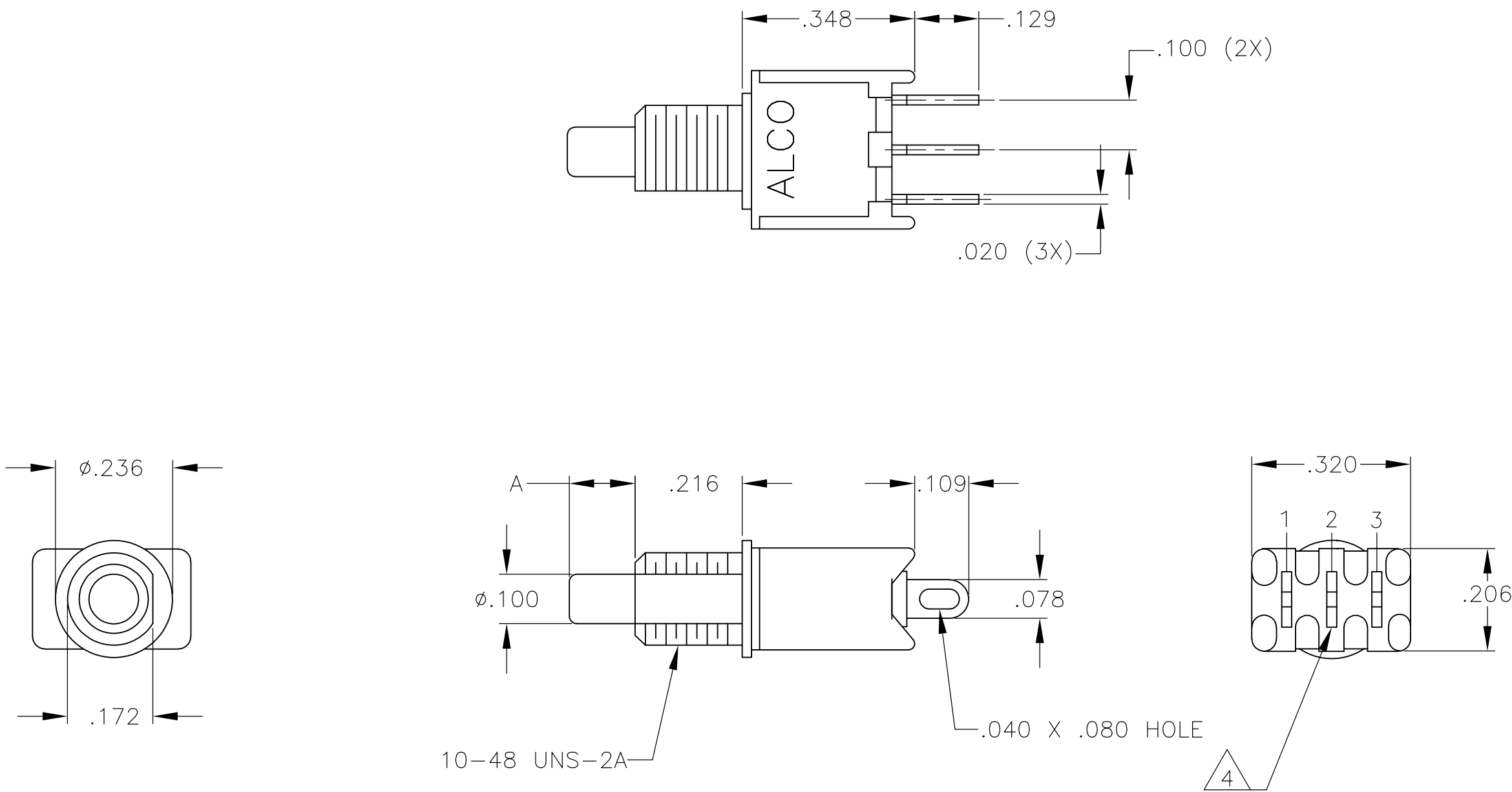
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| AD  | 00 | IP   | LTR | DESCRIPTION | DATE | DWN | APVD |  |
|     |    | -    | -   | SEE SHEET 1 | -    | -   | -    |  |
|     |    |      |     |             |      |     |      |  |



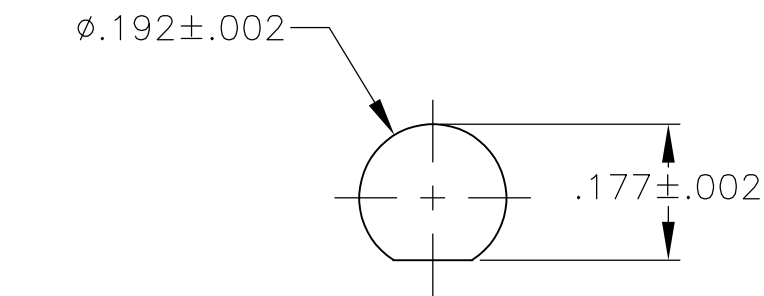
TPC11CGVRA, TPC11FGVRA



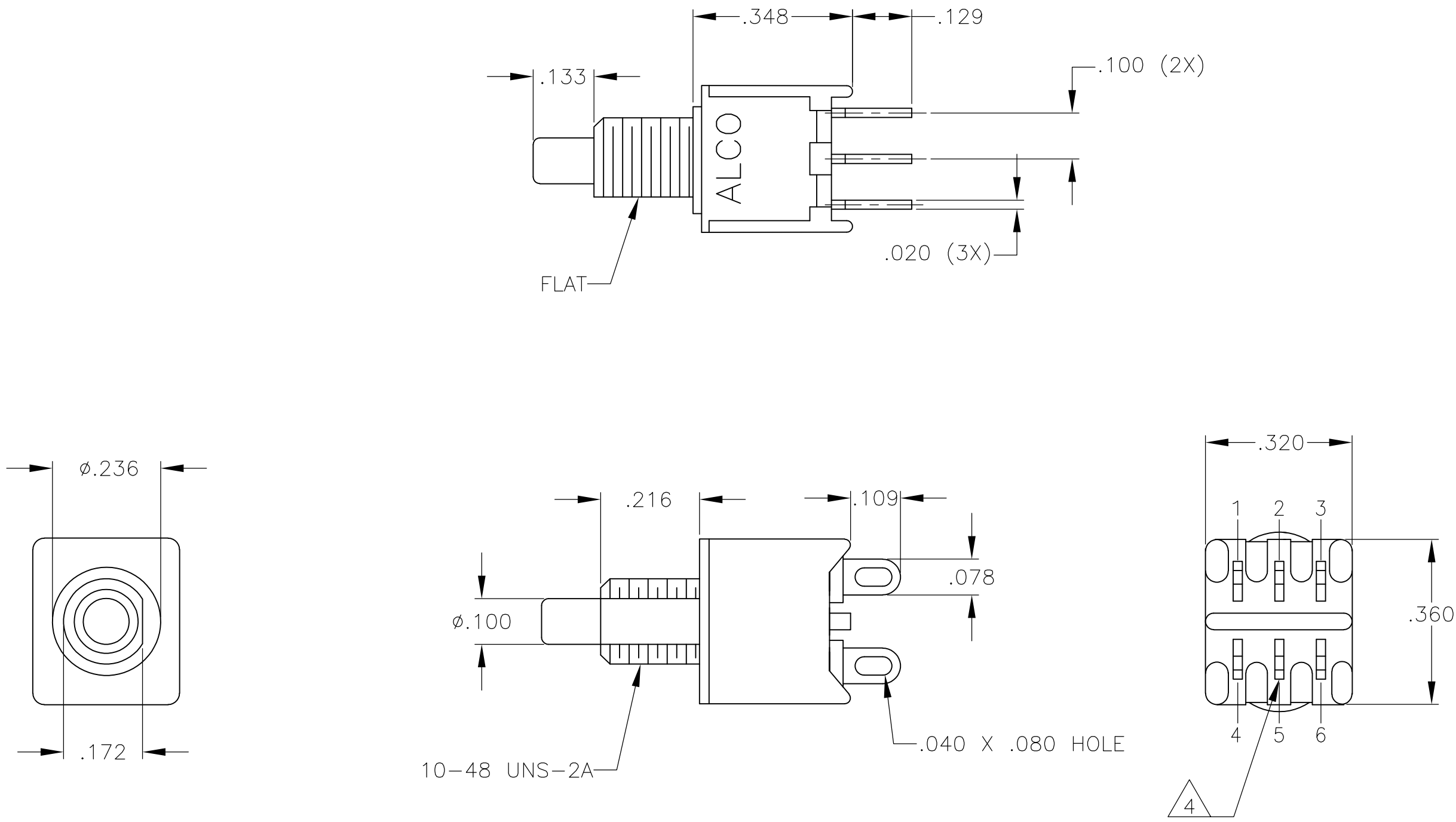
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| AD  | 00   | REV       | LTR | DESCRIPTION | DATE | DWN |
|     |      |           |     | SEE SHEET 1 |      |     |



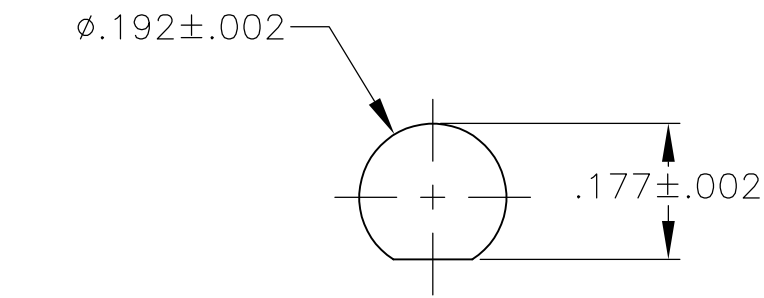
TPC13C, TPC13F,  
TPCF13C, TPC13F



RECOMMENDED PANEL LAYOUT



TPC23M, TPC23R



RECOMMENDED PANEL LAYOUT

|                                        |             |                                        |         |                  |  |
|----------------------------------------|-------------|----------------------------------------|---------|------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |             | DWN<br>RAGHU                           | 12-5-05 | TE Connectivity  |  |
|                                        |             | CHK                                    | -       |                  |  |
|                                        | DIMENSIONS: | TOLERANCES UNLESS OTHERWISE SPECIFIED: |         | NAME             |  |
|                                        | INCHES      |                                        |         | PRODUCT SPEC     |  |
|                                        |             |                                        |         | APPLICATION SPEC |  |
|                                        |             |                                        |         | RESTRICTED TO    |  |
| MATERIAL                               |             | FINISH                                 |         | WEIGHT           |  |
| -                                      |             | -                                      |         | -                |  |
|                                        |             |                                        |         | CUSTOMER DRAWING |  |
|                                        |             |                                        |         | SCALE 4:1        |  |
|                                        |             |                                        |         | SHEET 5 OF 5     |  |
|                                        |             |                                        |         | REV A2           |  |