

| LOC | DIST | REVISIONS |     |                           |         |     |      |
|-----|------|-----------|-----|---------------------------|---------|-----|------|
|     |      | P         | LTR | DESCRIPTION               | DATE    | DWN | APVD |
| AD  | 00   |           | A1  | REVISED PER ECO-11-004917 | 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,<br>TIN OVER NICKEL IN SOLDER AREA |
| TERMINAL, WIRE LUG & 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 |                                                                     |
| GUIDE, CC & FF SWITCHES ONLY     | NYLON 6/6, WHITE                       |                                                                     |

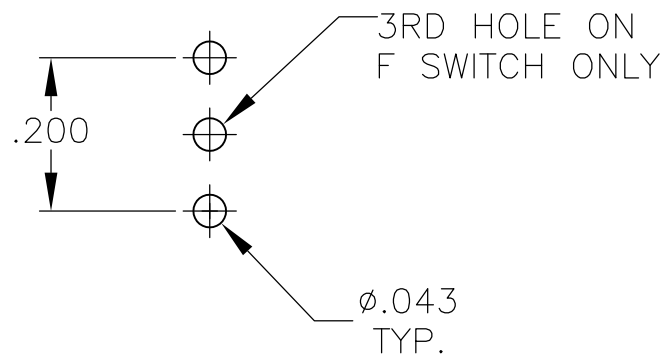
| PART NUMBER MATRIX                                                 |        |                  |                  |                |                    |              |    |
|--------------------------------------------------------------------|--------|------------------|------------------|----------------|--------------------|--------------|----|
| MODEL                                                              | POLES  | RATING           | FUNCTION         | PLATING        | TERMINATIONS       | BUTTON COLOR | 04 |
| TP                                                                 | 1      | 1=GOLD .4VA      | C=SPST MOMENTARY | G=GOLD         | BLANK=WIRE LUG     | 0=BLACK      |    |
|                                                                    | 2(1+1) | 3=SILVER 1 AMP 1 | F=SPDT MOMENTARY | BLANK=SILVER 1 | PC=PRINTED CIRCUIT | 2=RED        |    |
|                                                                    |        |                  |                  |                | RA=RIGHT ANGLE 1   | 6=BLUE       |    |
| NOTES:<br>1. SILVER ONLY AVAILABLE IN WIRE LUG AND PC TERMINATIONS |        |                  |                  |                |                    |              |    |
|                                                                    |        |                  |                  |                |                    |              |    |

| SPECIFICATIONS                 |                                               |
|--------------------------------|-----------------------------------------------|
| RATING                         | GOLD: .4VA MAX. @ 20VDC OR PEAK AC RESISITIVE |
|                                | 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                | .4VA: 100,000                                 |
|                                | 1A: 60,000                                    |
| OPERATING TEMPERATURE          | -30°C TO +95°C                                |
| STORAGE TEMPERATURE            | -30°C TO +95°C                                |
| TERMINAL SEAL                  | SINGLE POLE: EPOXY                            |
|                                | DOUBLE POLE: EPOXY OPTIONAL                   |

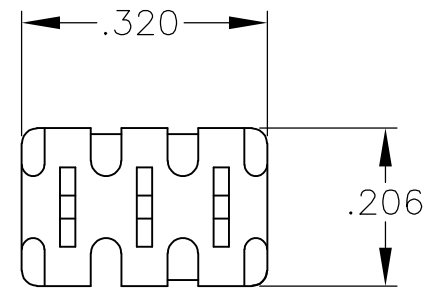
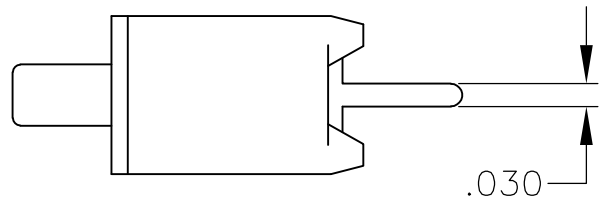
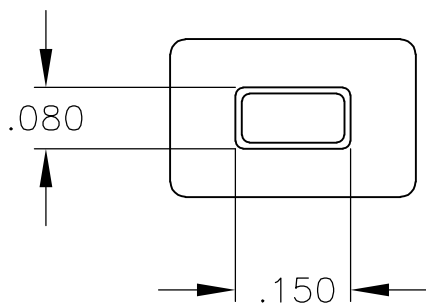
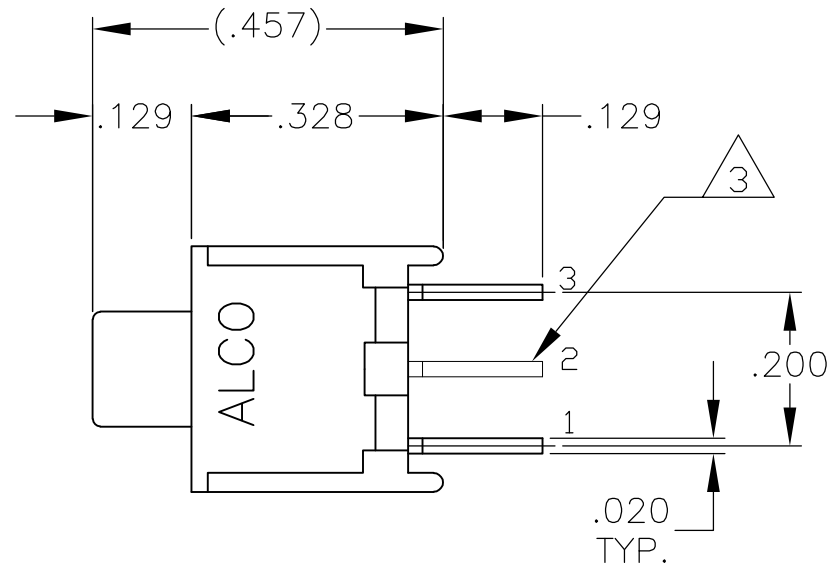
- NOTES:
1. TERMINAL NUMBERS ARE FOR REFERNCE ONLY AND DO NOT APPEAR ON SWITCHES
2. ALL MATERIALS AND FINISHES COMPLY WITH EU DIRECTIVE 2002/95/ES OF 27JAN2003 (ROHS)
- 3 CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

| P/N         | ALCO P/N     | POLES  | THROWS | PLATING | TERMINALS   | BUTTON COLOR | FUNCTION |     | CONNECTED TERMINALS |     |
|-------------|--------------|--------|--------|---------|-------------|--------------|----------|-----|---------------------|-----|
|             |              |        |        |         |             |              |          |     |                     |     |
| 1825095-1   | TP11CGPC004  | 1      | 1      | GOLD    | PC          | BLACK        | OFF      | MOM | OFF                 | 1-3 |
| 1825095-2   | TP11CGPC204  | 1      | 1      | GOLD    | PC          | RED          | OFF      | MOM | OFF                 | 1-3 |
| 1825095-3   | TP11CGRA004  | 1      | 1      | GOLD    | RIGHT ANGLE | BLACK        | OFF      | MOM | OFF                 | 1-3 |
| 1825095-4   | TP11CGRA204  | 1      | 1      | GOLD    | RIGHT ANGLE | RED          | OFF      | MOM | OFF                 | 1-3 |
| 1825095-5   | TP11CGRA604  | 1      | 1      | GOLD    | RIGHT ANGLE | BLUE         | OFF      | MOM | OFF                 | 1-3 |
| 1825095-6   | TP11FGPC004  | 1      | 2      | GOLD    | PC          | BLACK        | ON       | MOM | 1-2                 | 2-3 |
| 1825095-7   | TP11FGPC204  | 1      | 2      | GOLD    | PC          | RED          | ON       | MOM | 1-2                 | 2-3 |
| 1825095-8   | TP11FGRA004  | 1      | 2      | GOLD    | RIGHT ANGLE | BLACK        | ON       | MOM | 1-2                 | 2-3 |
| 1825095-9   | TP11FGRA204  | 1      | 2      | GOLD    | RIGHT ANGLE | RED          | ON       | MOM | 1-2                 | 2-3 |
| 1-1825095-0 | TP11FGRA604  | 1      | 2      | GOLD    | RIGHT ANGLE | BLUE         | ON       | MOM | 1-2                 | 2-3 |
| 1-1825095-1 | TP21CCGRA004 | 2(1+1) | 1      | GOLD    | RIGHT ANGLE | BLACK        | OFF      | MOM | OFF                 | 1-3 |
| 1-1825095-2 | TP21CCGRA204 | 2(1+1) | 1      | GOLD    | RIGHT ANGLE | RED          | OFF      | MOM | OFF                 | 1-3 |
| 1-1825095-3 | TP21FFGRA004 | 2(1+1) | 2      | GOLD    | RIGHT ANGLE | BLACK        | ON       | MOM | 1-2                 | 2-3 |

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



RECOMMENDED HOLE LAYOUT  
TOLERANCE ±.002 UNLESS  
OTHERWISE NOTED



TP11CGPC  
TP11FGPC

|                                        |  |                  |         |                                      |           |            |               |
|----------------------------------------|--|------------------|---------|--------------------------------------|-----------|------------|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN              | 12-1-05 | TE Connectivity                      |           |            |               |
|                                        |  | CHK              | -       |                                      |           |            |               |
| DIMENSIONS:<br>INCHES                  |  | APVD             | -       | NAME<br>PUSHBUTTON SWITCH, TP SERIES |           |            |               |
|                                        |  | PRODUCT SPEC     | -       |                                      |           |            |               |
|                                        |  | APPLICATION SPEC | -       |                                      |           |            |               |
|                                        |  | WEIGHT           | -       | SIZE                                 | CAGE CODE | DRAWING NO | RESTRICTED TO |
|                                        |  | CUSTOMER DRAWING | -       | A2                                   | 00779     | C=1825095  | -             |
|                                        |  | SCALE            | 4:1     | SHEET                                | 2 of 3    | REV        | A1            |

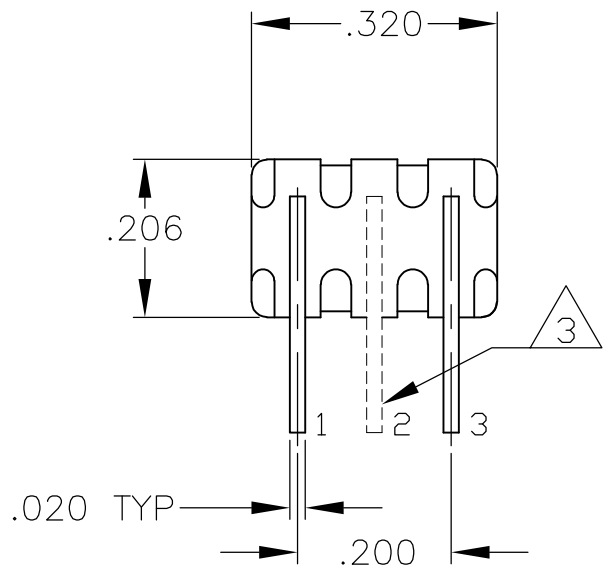
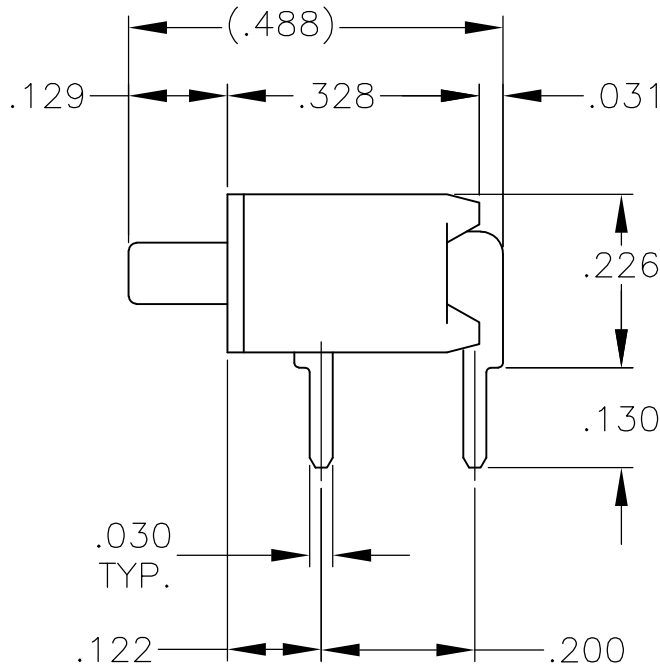
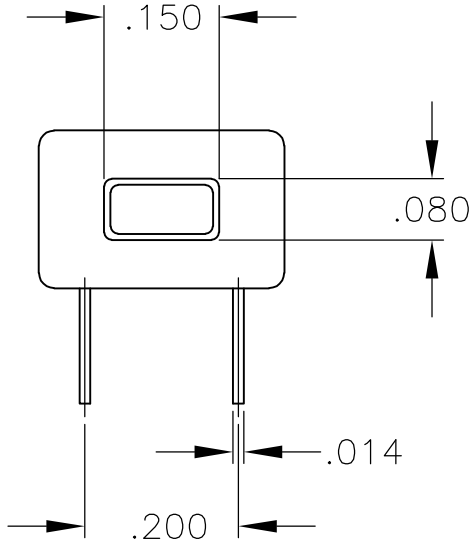
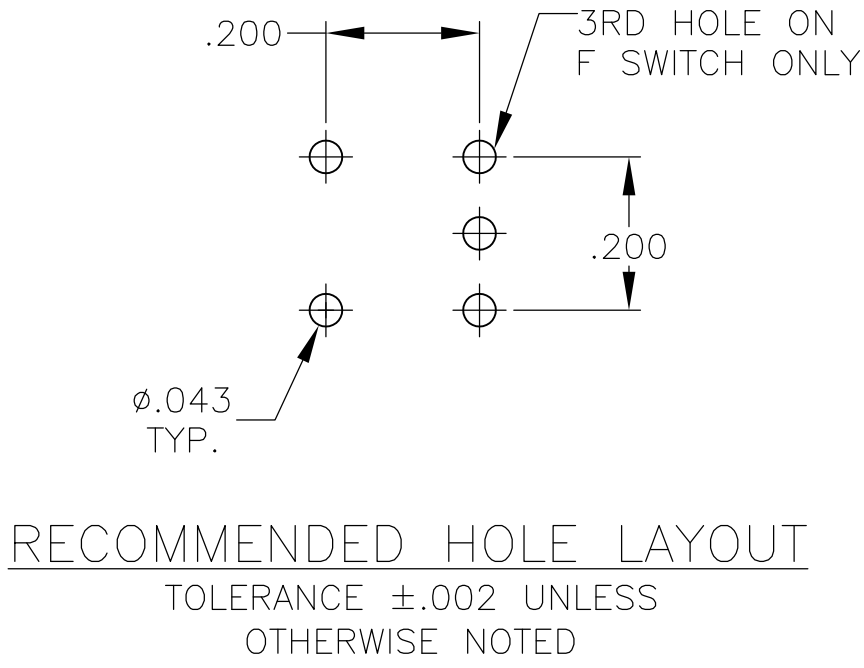
| LOC |    | DIST |     | REVISIONS   |  |  |      |     |      |
|-----|----|------|-----|-------------|--|--|------|-----|------|
| AD  | 00 | P    | LTR | DESCRIPTION |  |  | DATE | DWN | APVD |
|     |    | -    | -   | SEE SHEET 1 |  |  | -    | -   | -    |
|     |    |      |     |           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

D

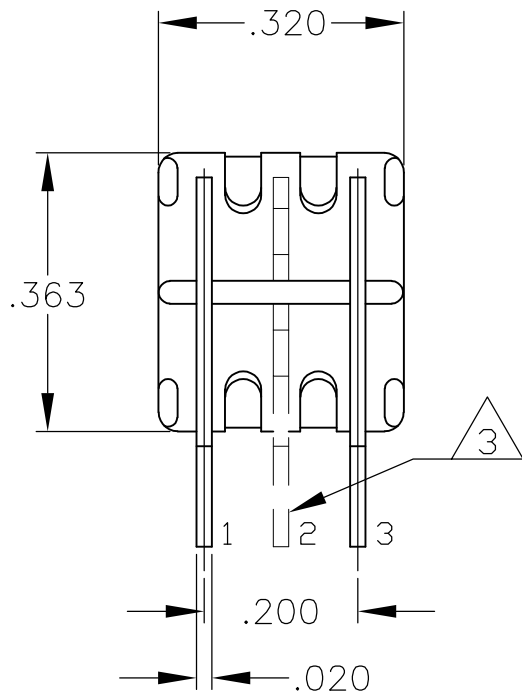
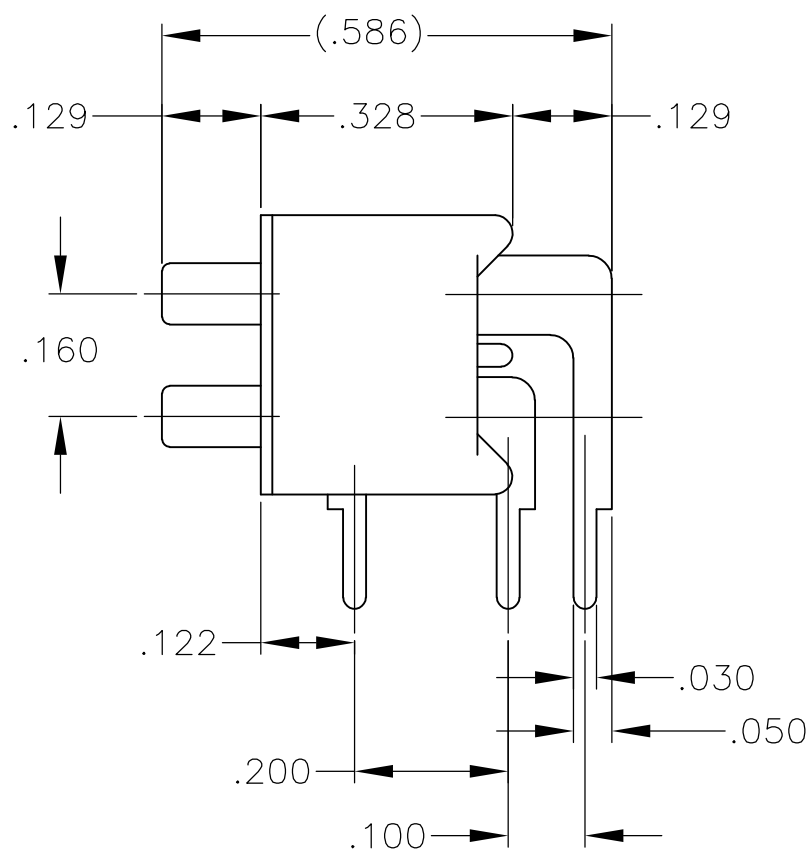
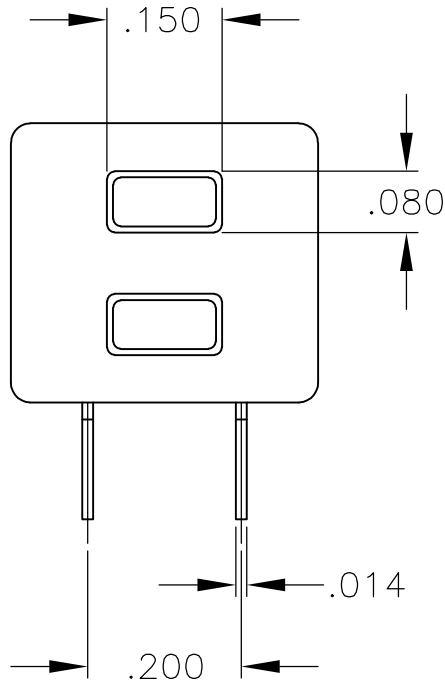
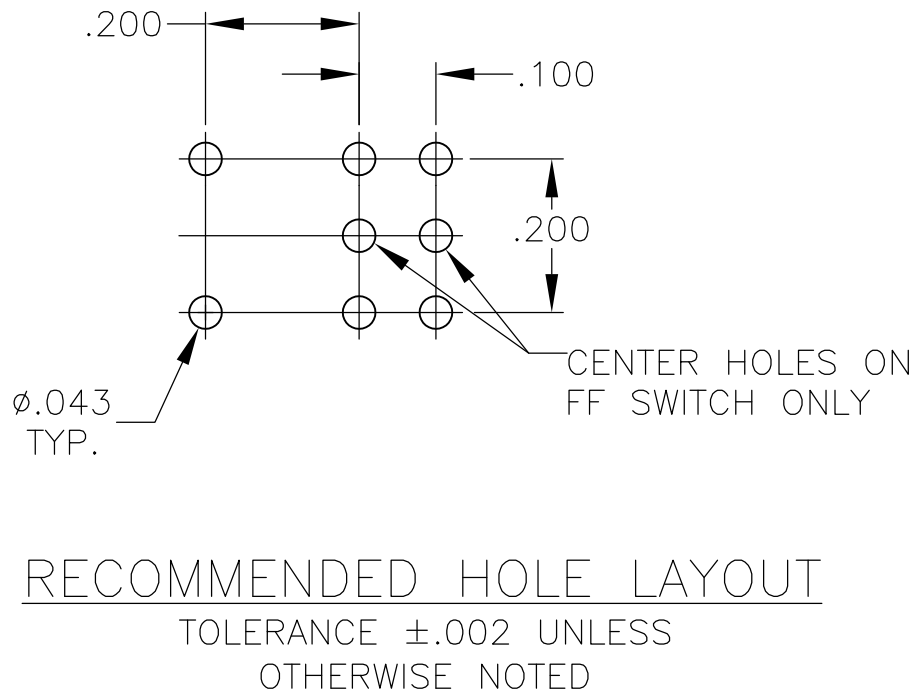
C

B

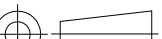
A



TP11CGRA  
TP11FGRA



TP21CCGRA  
TP21FFGRA

|                                                                                       |  |                                           |  |                  |         |                              |                                                                                                       |                         |                    |           |
|---------------------------------------------------------------------------------------|--|-------------------------------------------|--|------------------|---------|------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------|--------------------|-----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  |                                           |  | DWN<br>RAGHU     | 12-1-05 |                              |  TE Connectivity |                         |                    |           |
|                                                                                       |  |                                           |  | CHK<br>—         | —       |                              |                                                                                                       |                         |                    |           |
| DIMENSIONS:<br>INCHES                                                                 |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED: |  | APVD<br>—        | —       |                              | NAME                                                                                                  |                         |                    |           |
|  |  | 0 PLC ± —                                 |  | PRODUCT SPEC     |         | PUSHBUTTON SWITCH, TP SERIES |                                                                                                       |                         |                    |           |
|                                                                                       |  | 1 PLC ± —                                 |  | —                |         |                              |                                                                                                       |                         |                    |           |
|                                                                                       |  | 2 PLC ± —                                 |  | APPLICATION SPEC |         |                              |                                                                                                       |                         |                    |           |
|                                                                                       |  | 3 PLC ± .010                              |  | —                |         |                              |                                                                                                       |                         |                    |           |
|                                                                                       |  | 4 PLC ± —                                 |  | —                |         |                              |                                                                                                       |                         |                    |           |
| ANGLES ± 3°                                                                           |  |                                           |  | WEIGHT —         |         | SIZE<br>A2                   | CAGE CODE<br>00779                                                                                    | DRAWING NO<br>C=1825095 | RESTRICTED TO<br>— |           |
| MATERIAL<br>—                                                                         |  | FINISH<br>—                               |  |                  |         |                              |                                                                                                       |                         |                    |           |
|                                                                                       |  |                                           |  | CUSTOMER DRAWING |         |                              |                                                                                                       | SCALE<br>1:1            | SHEET<br>3 of 3    | REV<br>A1 |