

8

7

6

5

4

3

2

1

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LOCAD

DIST00

REVISONS

REV

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                                                                     |

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

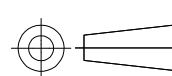
DISPOSABLE BOOT SUPPLIED WITH ES VERSIONS. BOOT TO BE PLACED OVER BUSHING BEFORE SOLDER WASHING

4

CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES



MATERIAL-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± .005  
1 PLC ± .005  
2 PLC ± .010  
3 PLC ± .010  
4 PLC ± .010  
ANGLES ± .5°

FINISH-

DWN RAGHU

CHK-

APVD-

PRODUCT SPEC-

APPLICATION SPEC-

WEIGHT-

CUSTOMER DRAWING

12-5-05

NAME

SIZECAGE CODEDRAWING NORESTRICTED TO

SCALE4:1SHEET1 OF 5REV A2

TE Connectivity

PUSHBUTTON SWITCH, TPC SERIES

A1007791825098

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

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

1825098-1

TPCF13C004

YES

1

2

SILVER

WIRE LUG

NO

BLACK

ON

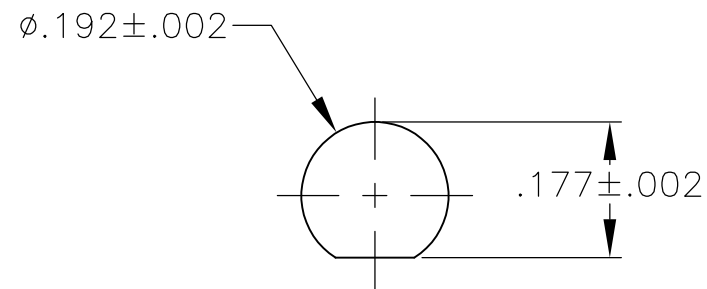
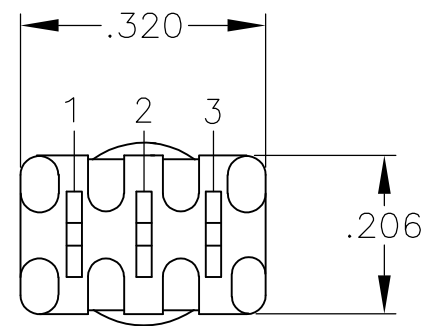
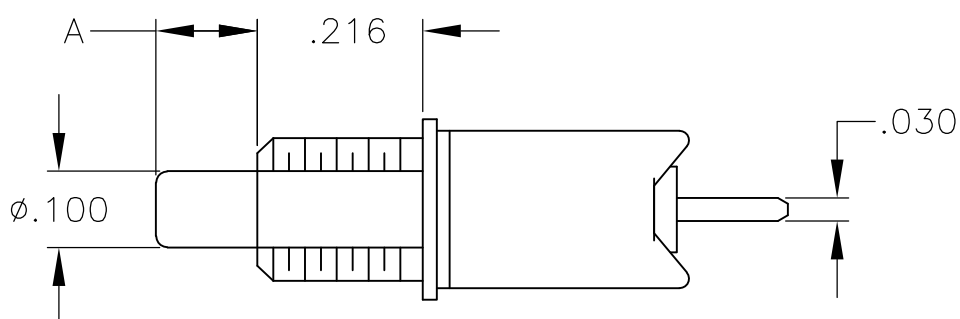
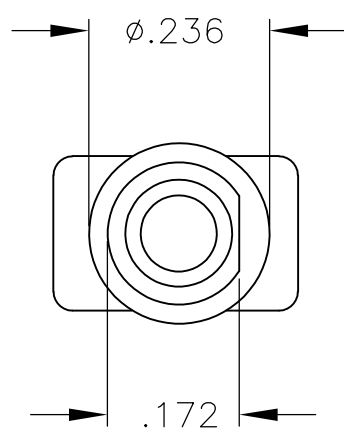
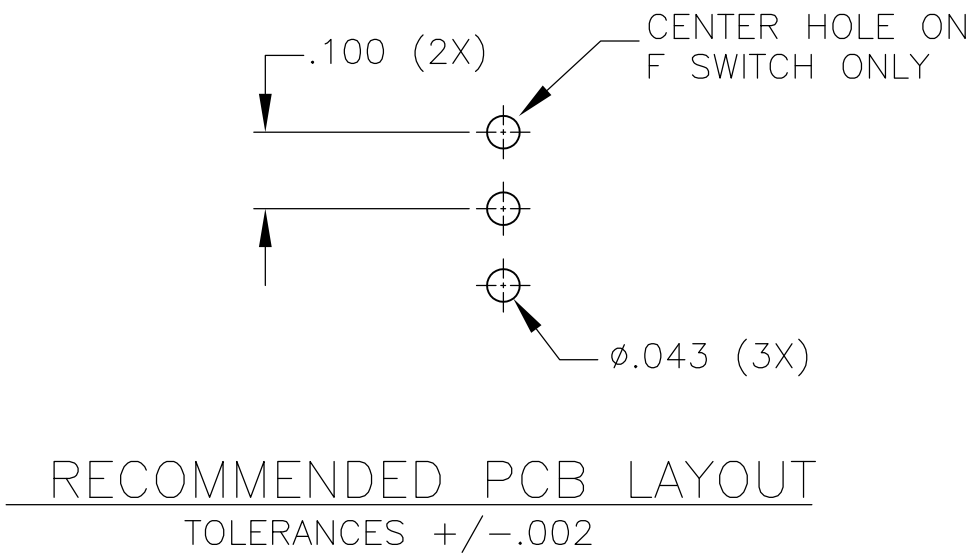
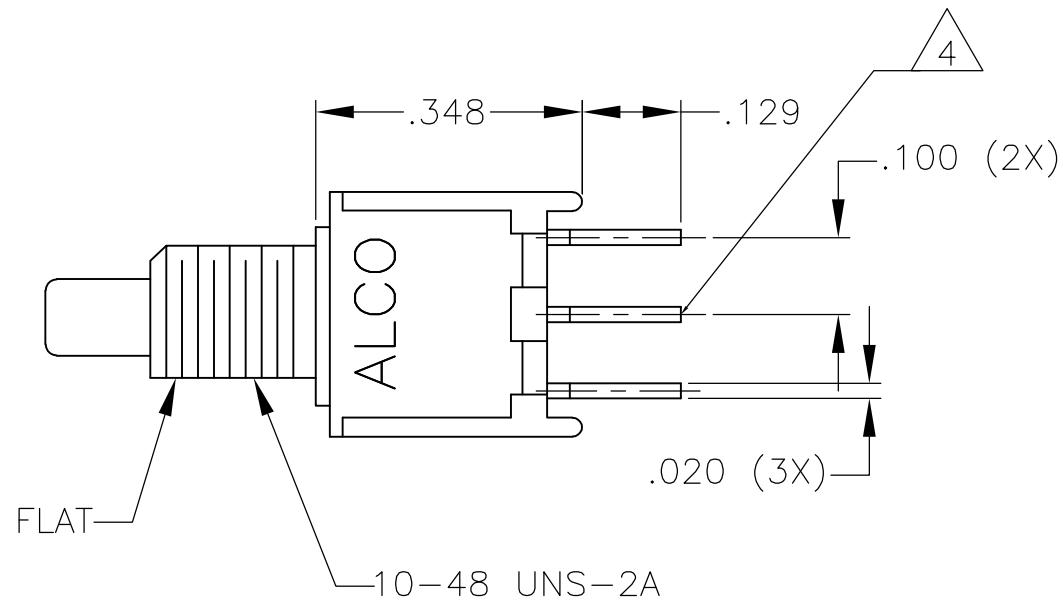
MOM

1-2

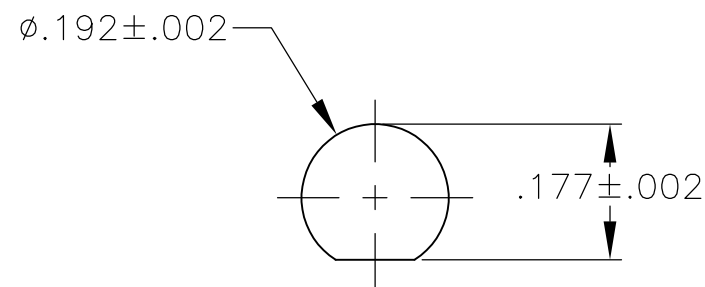
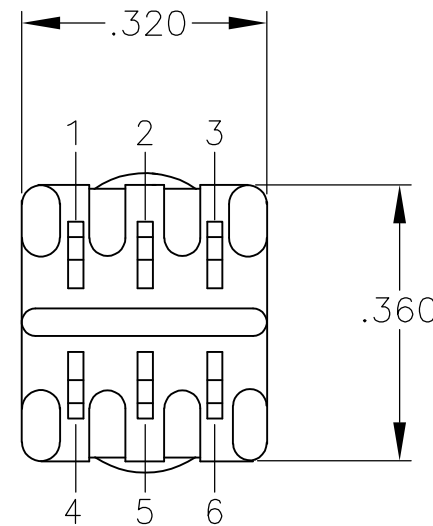
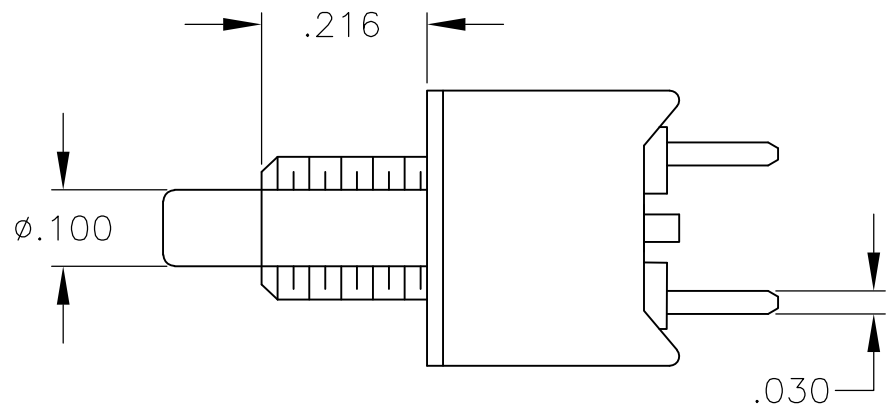
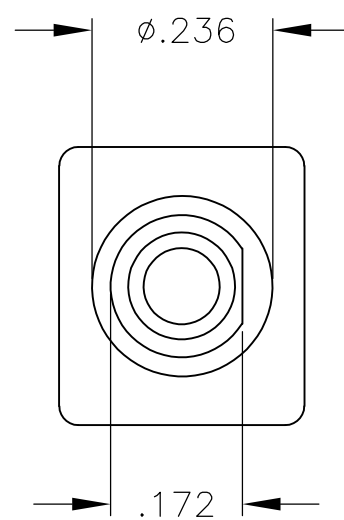
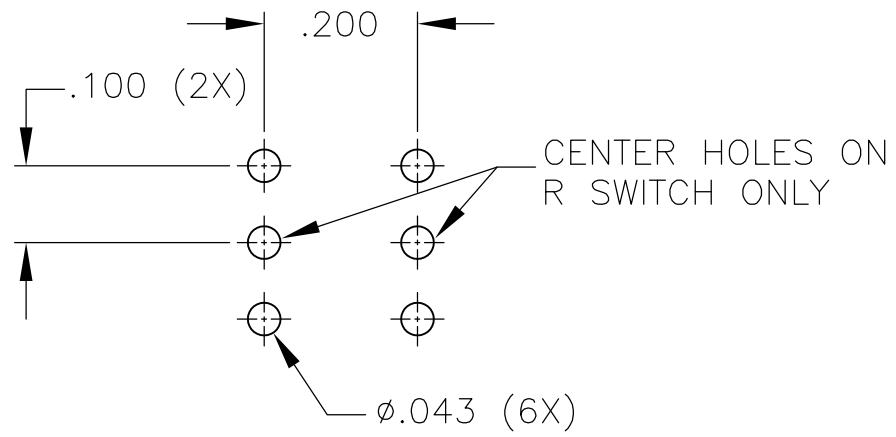
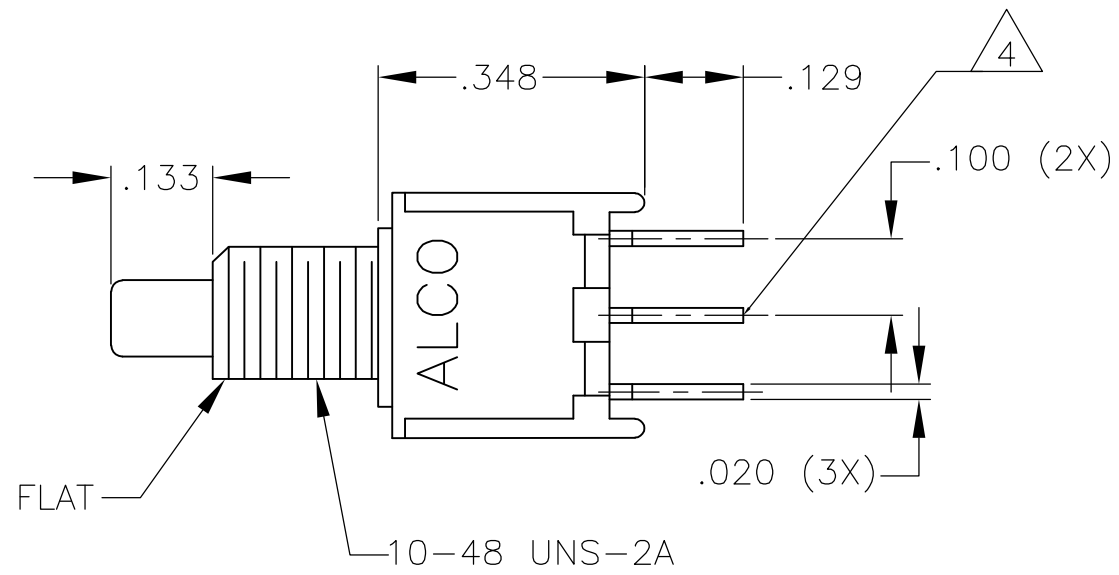
2-3

.000

4805 (3/11)



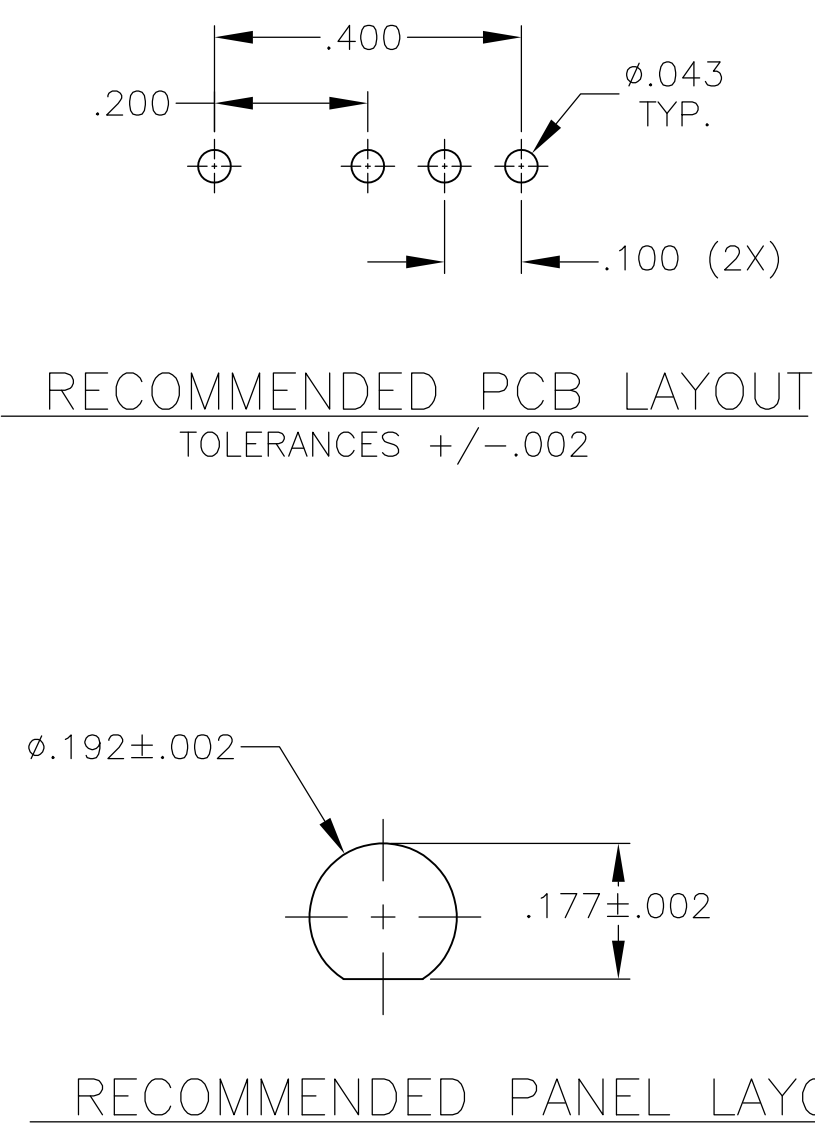
TPC11CGPC, TPC11FGPC  
TPCF11CGPC, TPC13CPC



TPC21RGPC

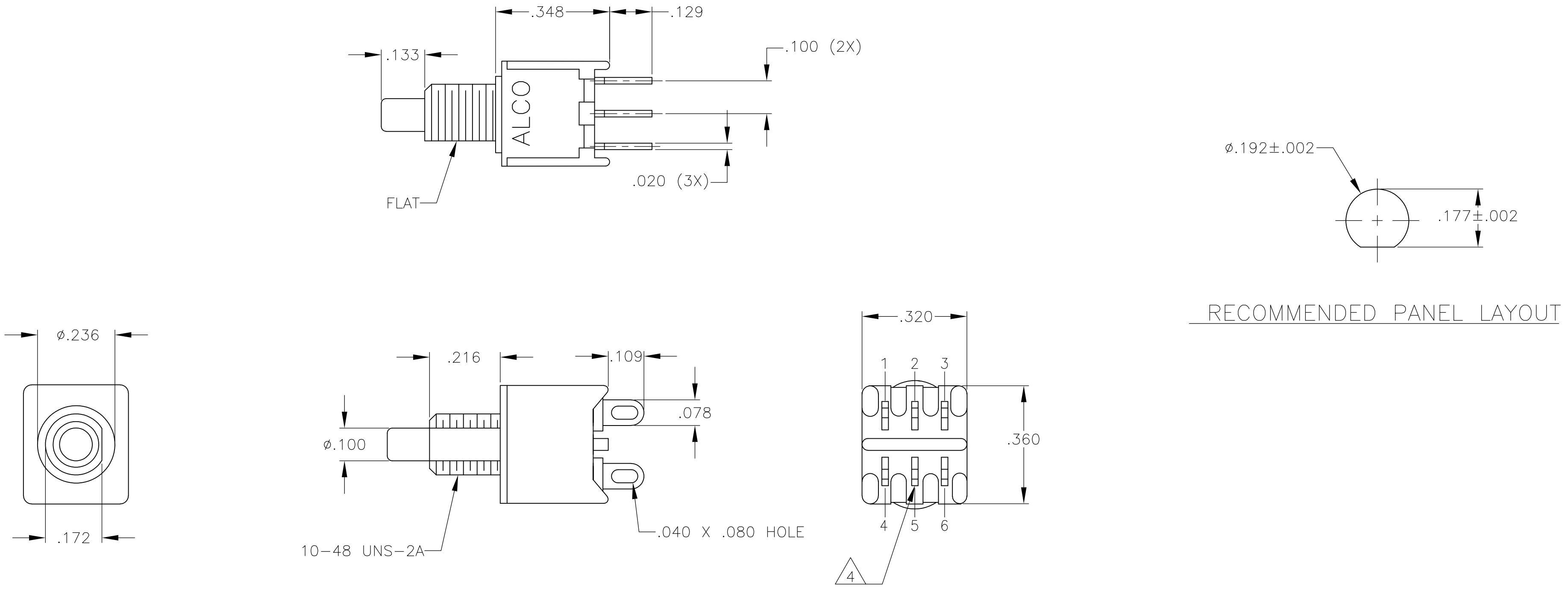
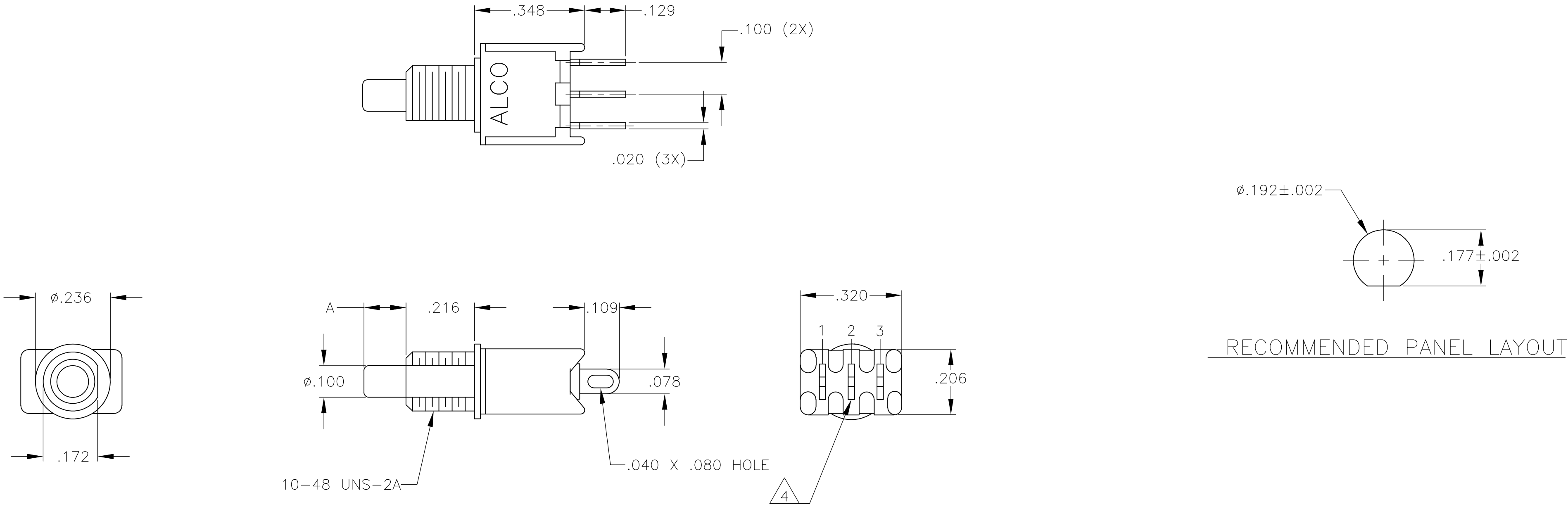
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|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|-------------------------------|--------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.               |                                                                                                                                                                                                         | DMN              | 12-5-05 | TE Connectivity               |        |
|                                                      |                                                                                                                                                                                                         | CHK              | —       |                               |        |
| <div>DIMENSIONS:</div> <div>INCHES</div> <div></div> | <div>TOLERANCES UNLESS OTHERWISE SPECIFIED:</div> <div>0 PLC ± —</div> <div>1 PLC ± —</div> <div>2 PLC ± —</div> <div>3 PLC ± .010</div> <div>4 PLC ± —</div> <div>ANGLES ± °</div> <div>FINISH —</div> | APVD             | —       | NAME                          |        |
|                                                      |                                                                                                                                                                                                         | PRODUCT SPEC     | —       | PUSHBUTTON SWITCH, TPC SERIES |        |
|                                                      |                                                                                                                                                                                                         | APPLICATION SPEC | —       | SIZE CAGE CODE DRAWING NO     |        |
|                                                      |                                                                                                                                                                                                         | —                | —       | RESTRICTED TO                 |        |
| MATERIAL                                             | —                                                                                                                                                                                                       | WEIGHT           | —       | A1 00779 1825098              |        |
| CUSTOMER DRAWING                                     |                                                                                                                                                                                                         | SCALE            | 4:1     | SHEET                         | 2 OF 5 |
|                                                      |                                                                                                                                                                                                         | REV              | A2      |                               |        |





## RECOMMENDED PANEL LAYOUT

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



|                                               |  |              |         |                                                                                                       |  |
|-----------------------------------------------|--|--------------|---------|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.        |  | DWN<br>RAGHU | 12-5-05 |  TE Connectivity |  |
|                                               |  | CHK<br>--    | --      |                                                                                                       |  |
| <div>DIMENSIONS:<br/>INCHES</div> <div></div> |  |              |         |                                                                                                       |  |