

| 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 1 | 2 | 3=SILVER 1 AMP ² | F=SPDT MOMENTARY | BLANK=SILVER ² | PC=PRINTED CIRCUIT | | 2=RED | |
| | | | | M=DPST MOMENTARY | | RA=RIGHT ANGLE 3 | | 6=BLUE | |
| | | | | R=DPDT MOMENTARY | | VRA=VERTICAL RIGHT ANGLE 4 | | | |

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

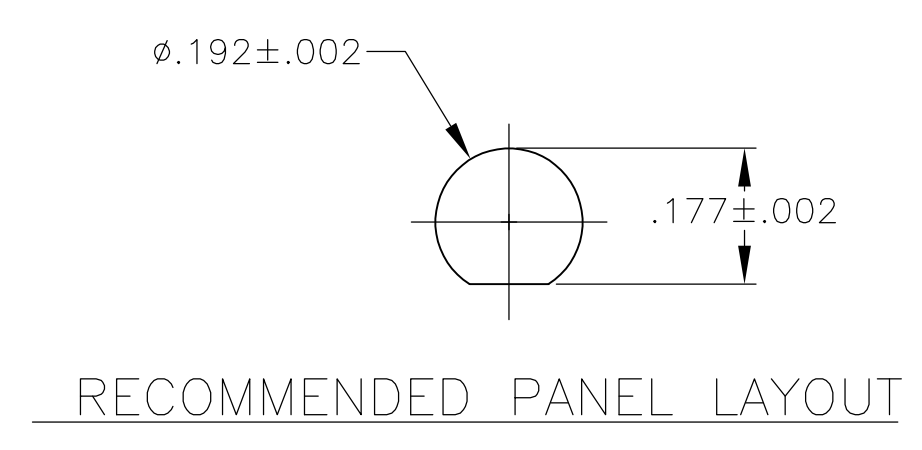
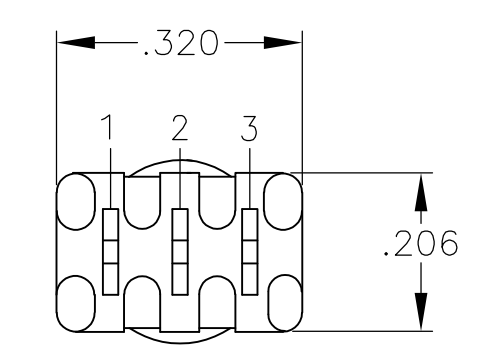
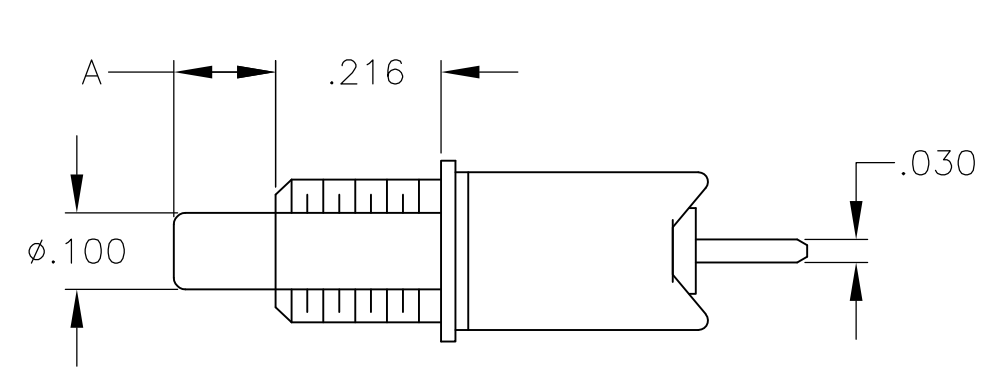
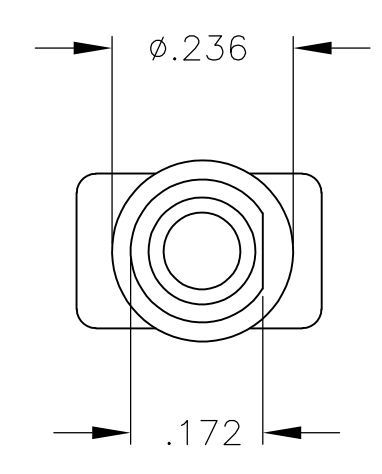
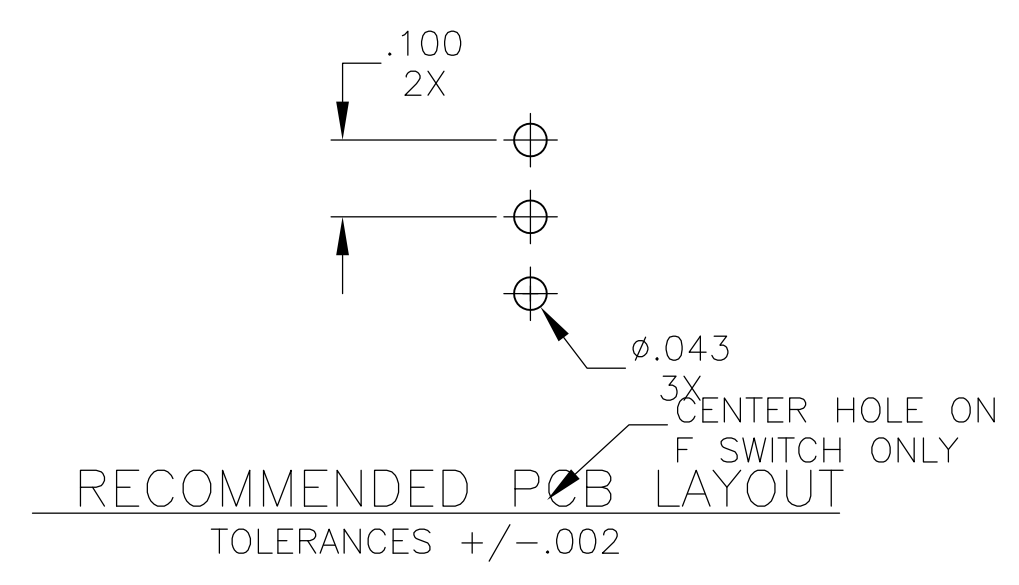
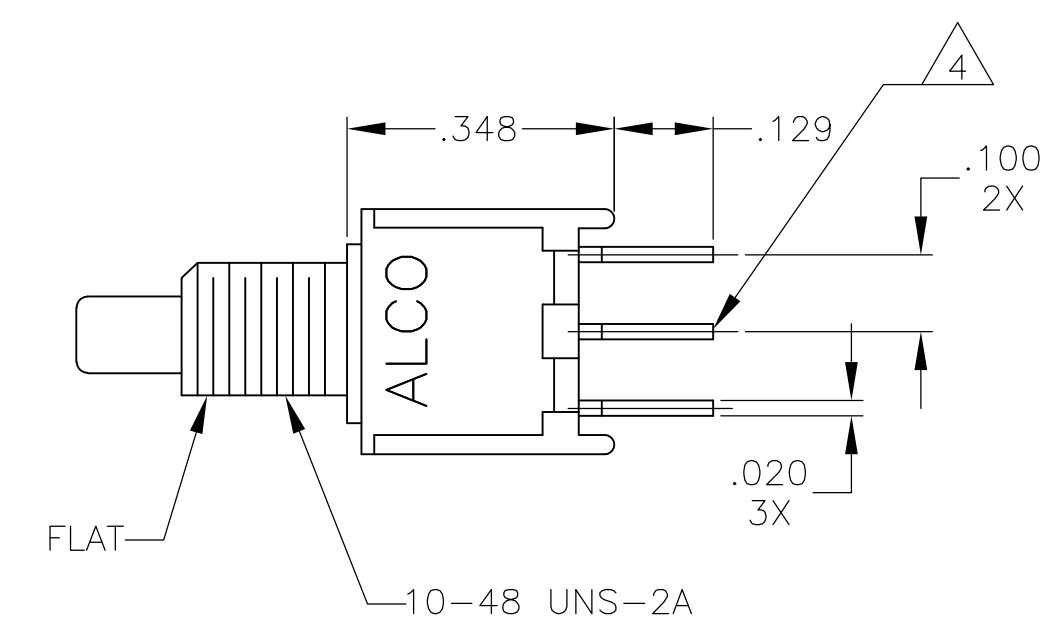
| SPECIFICATIONS | |
|--------------------------------|---|
| RATING | GOLD: .4VA MAX. @ 20VDC OR PEAK AS RESISTIVE SILVER: 1A @ 125VAC OR 28 VDC RESISTIVE |
| INITIAL TERMINATION RESISTANCE | 20 MILLIOHMS MAX. |
| INSULATION RESISTANCE | 1,000 MEGOHMS MIN @ 500 VDC |
| DIELECTRIC STRENGTH | 1,000 VOLTS 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:
- 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
- 4 CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

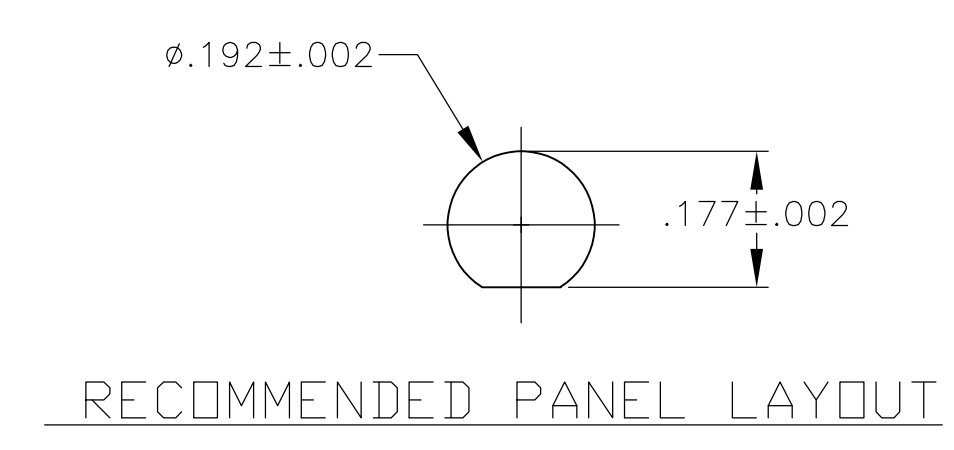
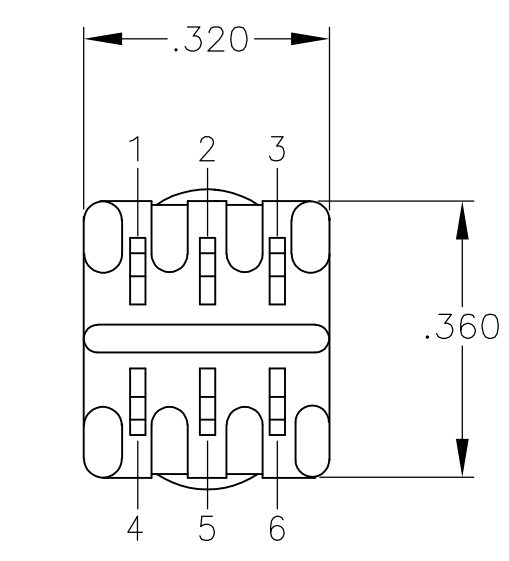
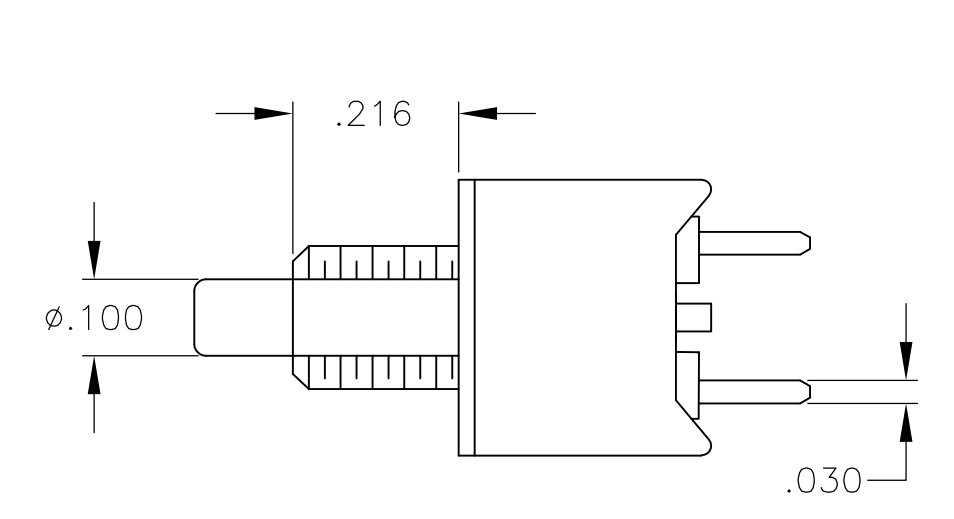
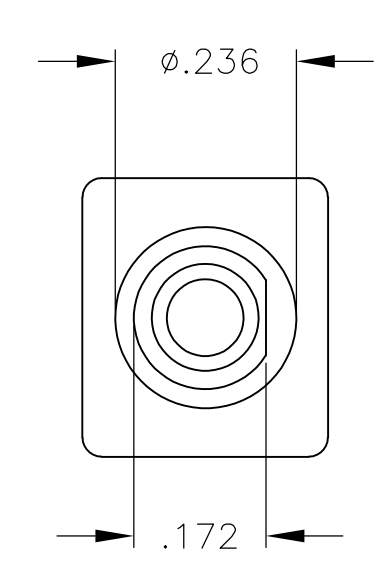
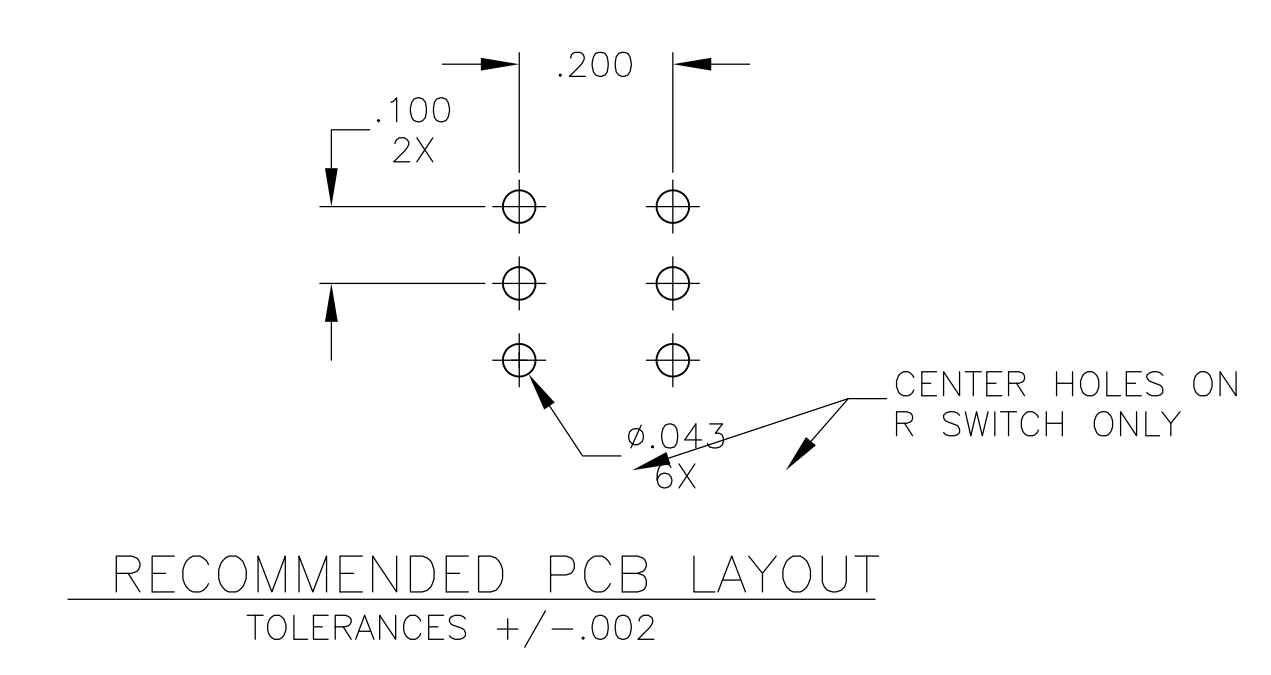
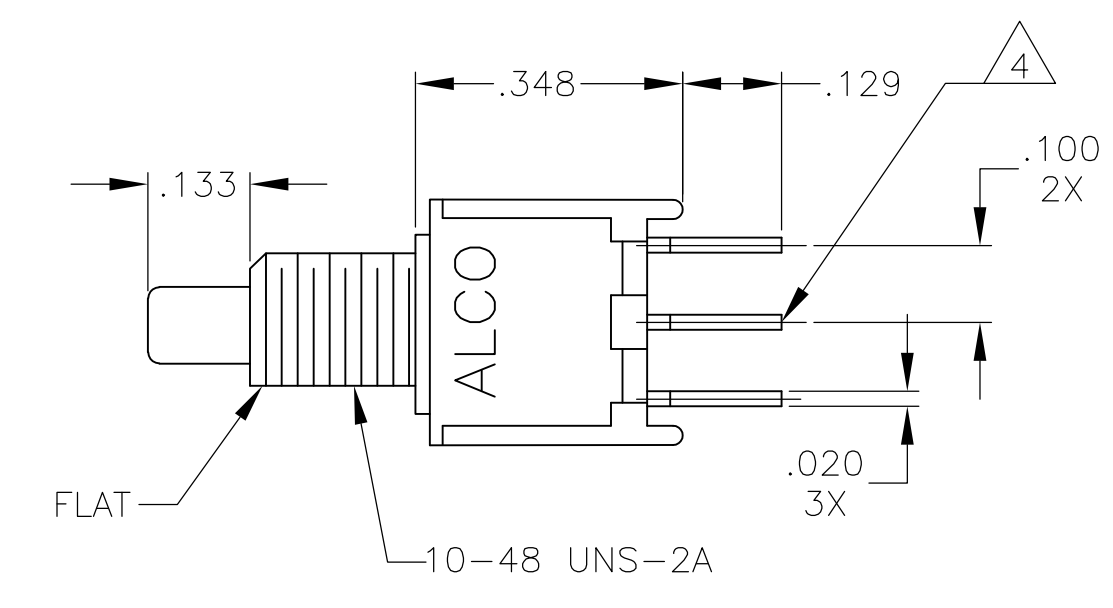
| P/N | ALCO P/N | FLUSH ACTUATOR | POLES | THROWS | PLATING | TERMINALS | PROCESS SEALED | BUTTON COLOR | FUNCTION | | | | CONNECTED TERMINALS | | DIM A |
|-------------|---------------|----------------|-------|--------|---------|-------------|----------------|--------------|----------|-----|-----|-----|---------------------|----------|-------|
| | | | | | | | | | OFF | MOM | ON | MOM | 1-3 | 4-6 | |
| 1825098-1 | TPC11CGPC004 | NO | 1 | 1 | GOLD | PC | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .133 |
| 1825098-2 | TPC11CGRA004 | NO | 1 | 1 | GOLD | RIGHT ANGLE | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .133 |
| 1825098-3 | TPC11CGRA204 | NO | 1 | 1 | GOLD | RIGHT ANGLE | NO | RED | OFF | MOM | OFF | OFF | 1-3 | | .133 |
| 1825098-4 | TPC11CGVRA004 | NO | 1 | 1 | GOLD | VRA | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | N/A |
| 1825098-5 | TPC11FGPC004 | NO | 1 | 2 | GOLD | PC | NO | BLACK | ON | MOM | OFF | OFF | 1-2 | 2-3 | .133 |
| 1825098-6 | TPC11FGRA004 | NO | 1 | 2 | GOLD | RIGHT ANGLE | NO | BLACK | ON | MOM | OFF | OFF | 1-2 | 2-3 | .133 |
| 1825098-7 | TPC11FGVRA004 | NO | 1 | 2 | GOLD | VRA | NO | BLACK | ON | MOM | OFF | OFF | 1-2 | 2-3 | N/A |
| 1825098-8 | TPC11FGVRA204 | NO | 1 | 2 | GOLD | VRA | NO | RED | ON | MOM | OFF | OFF | 1-2 | 2-3 | N/A |
| 1825098-9 | TPC13C004 | NO | 1 | 1 | SILVER | WIRE LUG | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .133 |
| 1-1825098-0 | TPC13C204 | NO | 1 | 1 | SILVER | WIRE LUG | NO | RED | OFF | MOM | OFF | OFF | 1-3 | | .133 |
| 1-1825098-1 | TPC13CPC004 | NO | 1 | 1 | SILVER | PC | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .133 |
| 1-1825098-2 | TPC13F004 | NO | 1 | 2 | SILVER | WIRE LUG | NO | BLACK | ON | MOM | OFF | OFF | 1-2 | 2-3 | .133 |
| 1-1825098-3 | TPC21MGRA204 | NO | 2 | 1 | GOLD | RIGHT ANGLE | NO | RED | OFF | MOM | OFF | OFF | 1-3, 4-6 | | N/A |
| 1-1825098-4 | TPC21RGPC004 | NO | 2 | 2 | GOLD | PC | NO | BLACK | ON | MOM | OFF | OFF | 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 | OFF | 1-3, 4-6 | | N/A |
| 1-1825098-6 | TPC23R204 | NO | 2 | 2 | SILVER | WIRE LUG | NO | RED | ON | MOM | OFF | OFF | 1-2, 4-5 | 2-3, 5-6 | N/A |
| 1-1825098-7 | TPCF11CGPC004 | YES | 1 | 1 | GOLD | PC | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .000 |
| 1-1825098-8 | TPCF11CGRA004 | YES | 1 | 1 | GOLD | RIGHT ANGLE | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .000 |
| 1-1825098-9 | TPCF11FGRA004 | YES | 1 | 2 | GOLD | RIGHT ANGLE | NO | BLACK | ON | MOM | OFF | OFF | 1-2 | 2-3 | .000 |
| 2-1825098-0 | TPCF13C004 | YES | 1 | 1 | SILVER | WIRE LUG | NO | BLACK | OFF | MOM | OFF | OFF | 1-3 | | .000 |
| 2-1825098-1 | TPCF13C004 | YES | 1 | 2 | SILVER | WIRE LUG | NO | BLACK | ON | MOM | OFF | OFF | 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. MATERIAL: -. FINISH: -. WEIGHT: -. CUSTOMER DRAWING: A1.00779. SCALE: 4:1. SHEET: 1 OF 5. REV: A1.

12-5-05 RAGHU. TE Connectivity. PUSHBUTTON SWITCH, TPC SERIES. SIZE: A1. CAGE CODE: 00779. DRAWING NO: 1825098. RESTRICTED TO: -. WEIGHT: -. CUSTOMER DRAWING: A1. SCALE: 4:1. SHEET: 1 OF 5. REV: A1.

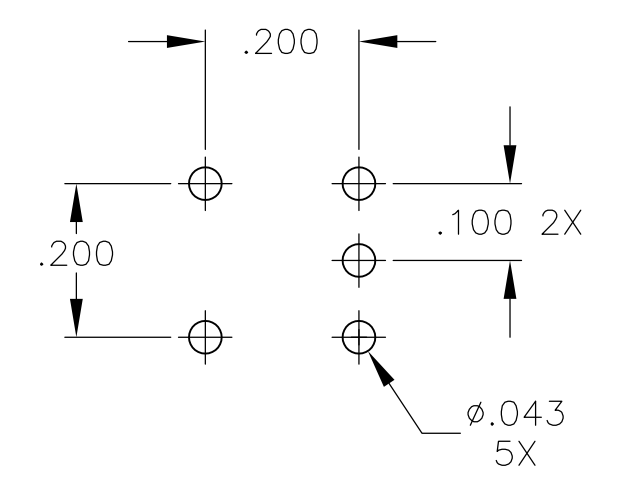
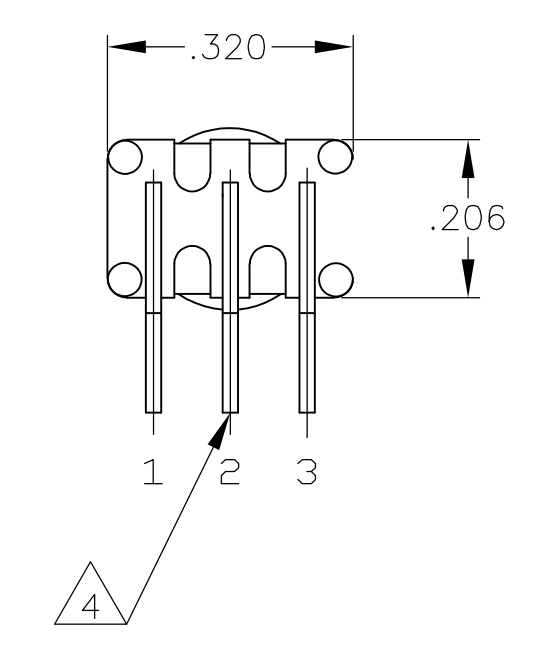
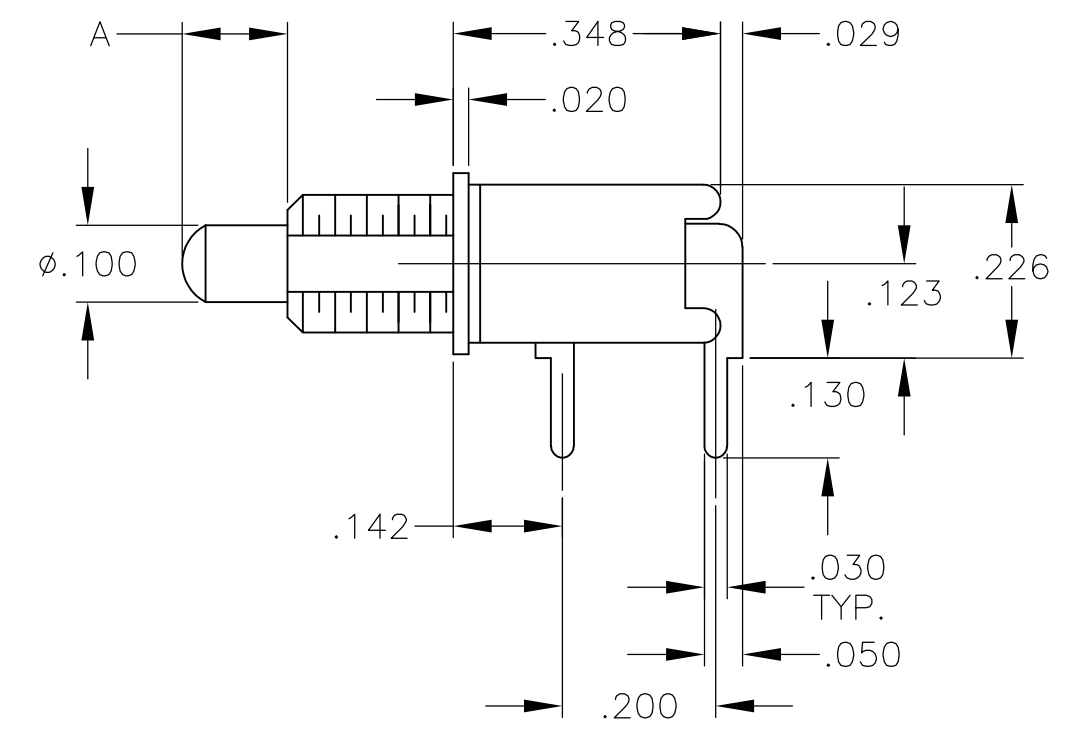
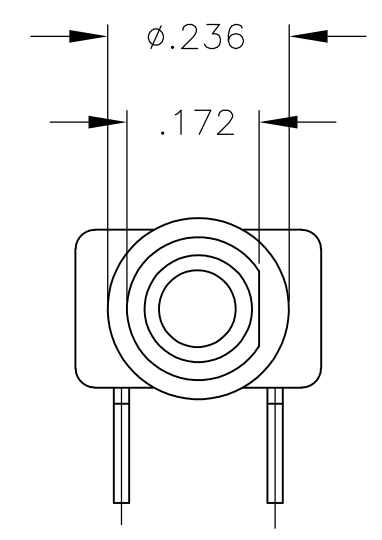
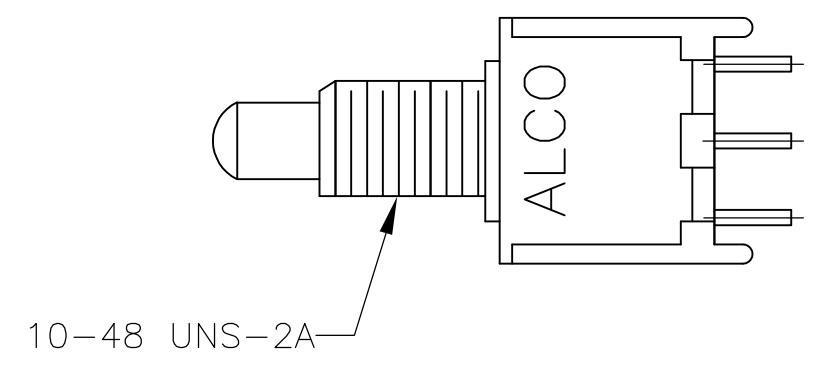


TPC11CGPC, TPC11FGPC
TPCF11CGPC, TPC13CPC

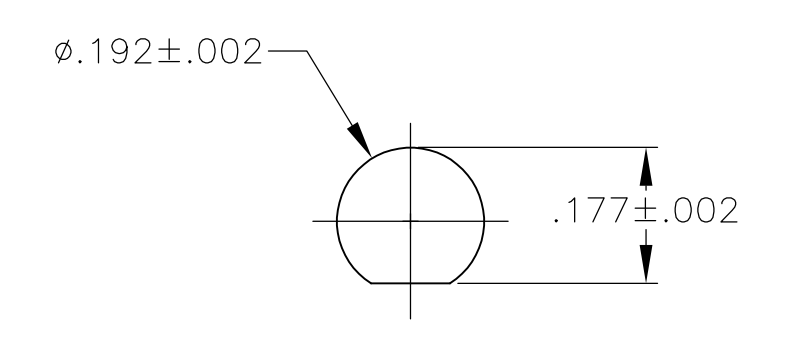


TPC21RGPC

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|------------------|--------|--------|---|---|--------|---|---|--------|---|------|--------|---|---|--------|---|---|------|--------------|-------------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DIN 12-5-05 | RAGHU | | | | | | | | | | | | | | | | | | | |
| DIMENSIONS: INCHES | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | CHK | NAME | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>0. PLC</td><td>±</td><td>-</td></tr> <tr><td>1. PLC</td><td>±</td><td>-</td></tr> <tr><td>2. PLC</td><td>±</td><td>-</td></tr> <tr><td>3. PLC</td><td>±</td><td>.010</td></tr> <tr><td>4. PLC</td><td>±</td><td>-</td></tr> <tr><td>ANGLES</td><td>±</td><td>°</td></tr> </table> | | 0. PLC | ± | - | 1. PLC | ± | - | 2. PLC | ± | - | 3. PLC | ± | .010 | 4. PLC | ± | - | ANGLES | ± | ° | APVD | PRODUCT SPEC | PUSHBUTTON SWITCH, TPC SERIES |
| 0. PLC | ± | - | | | | | | | | | | | | | | | | | | | | |
| 1. PLC | ± | - | | | | | | | | | | | | | | | | | | | | |
| 2. PLC | ± | - | | | | | | | | | | | | | | | | | | | | |
| 3. PLC | ± | .010 | | | | | | | | | | | | | | | | | | | | |
| 4. PLC | ± | - | | | | | | | | | | | | | | | | | | | | |
| ANGLES | ± | ° | | | | | | | | | | | | | | | | | | | | |
| MATERIAL | | FINISH | APPLICATION SPEC | | | | | | | | | | | | | | | | | | | |
| CUSTOMER DRAWING | | SCALE 4:1 | SHEET 2 OF 5 | REV A1 | | | | | | | | | | | | | | | | | | |

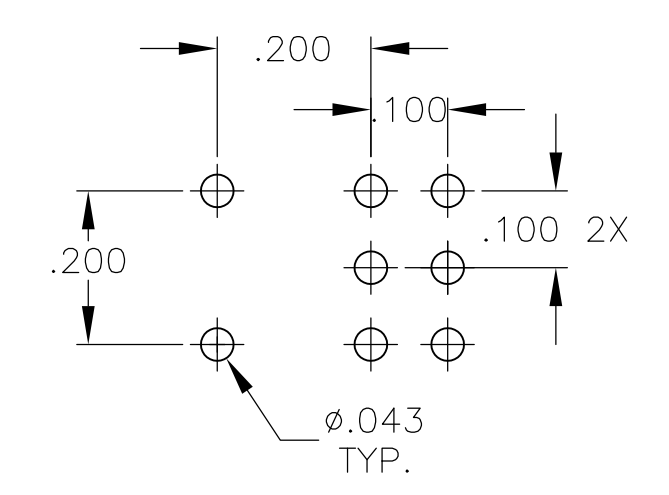
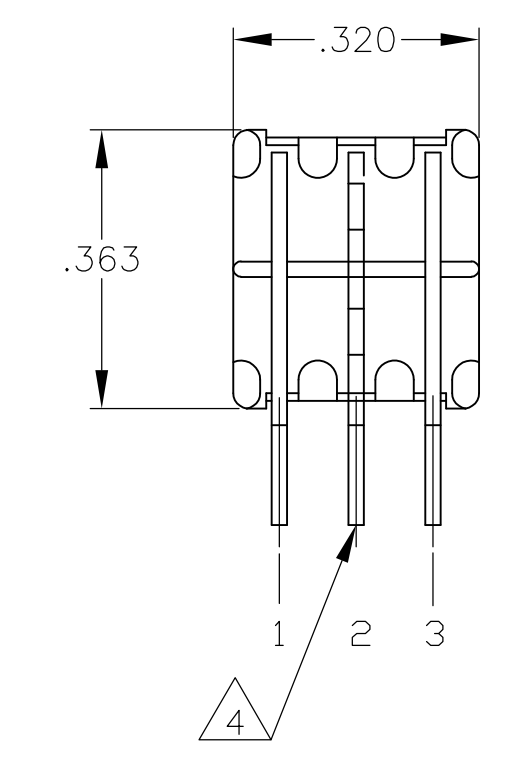
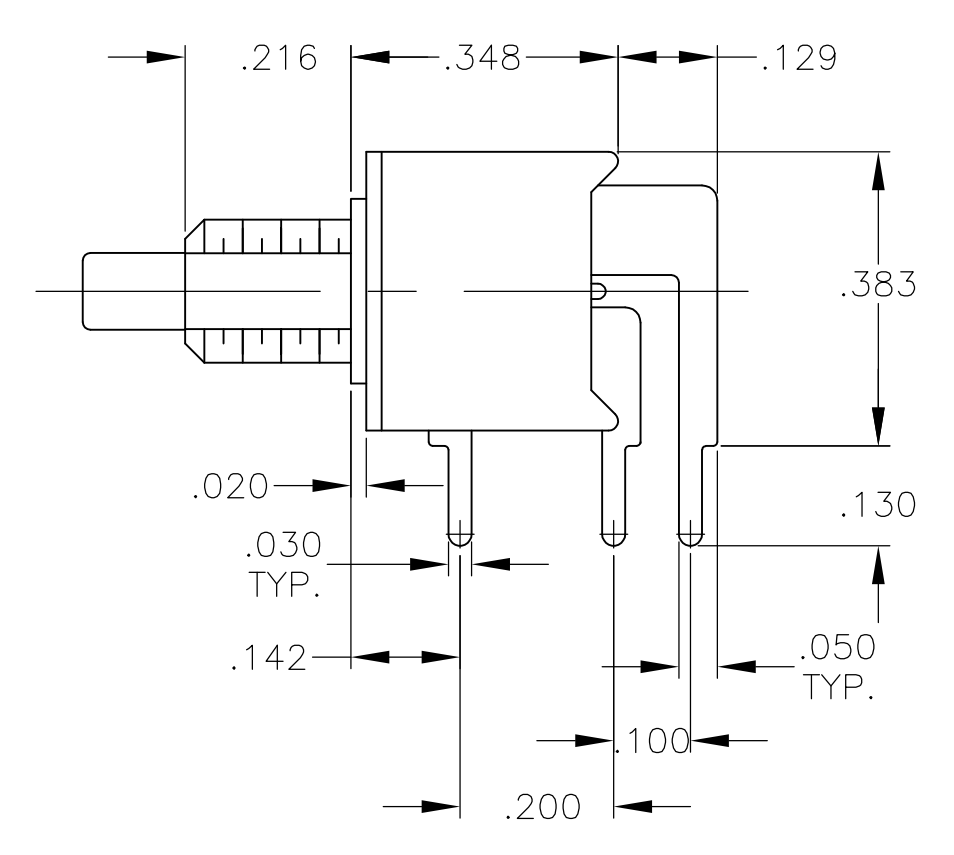
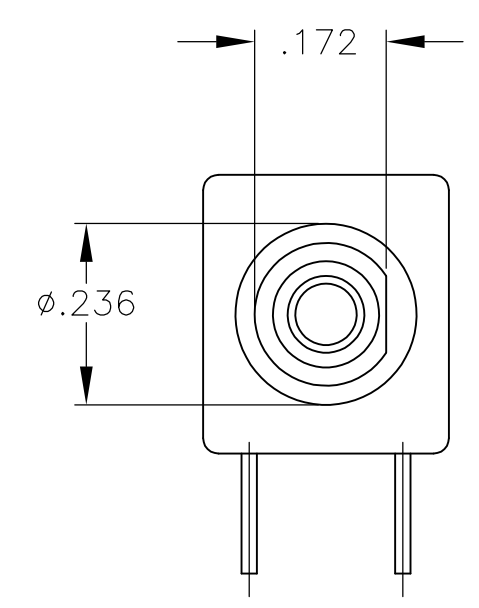
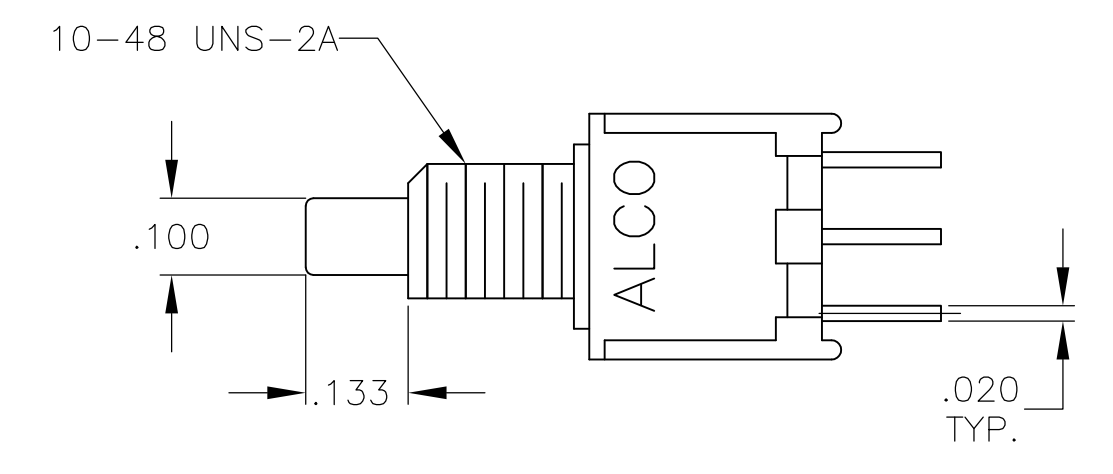


RECOMMENDED PCB LAYOUT
TOLERANCES +/- .002

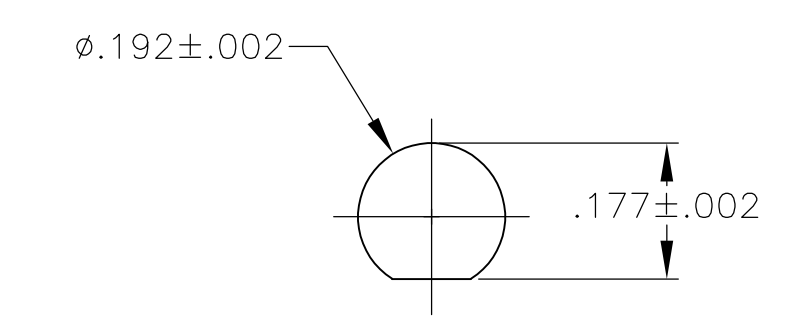


RECOMMENDED PANEL LAYOUT

TPC11CGRA, TPC11FGRA
TPCF11CGRA, TPCF11FGRA



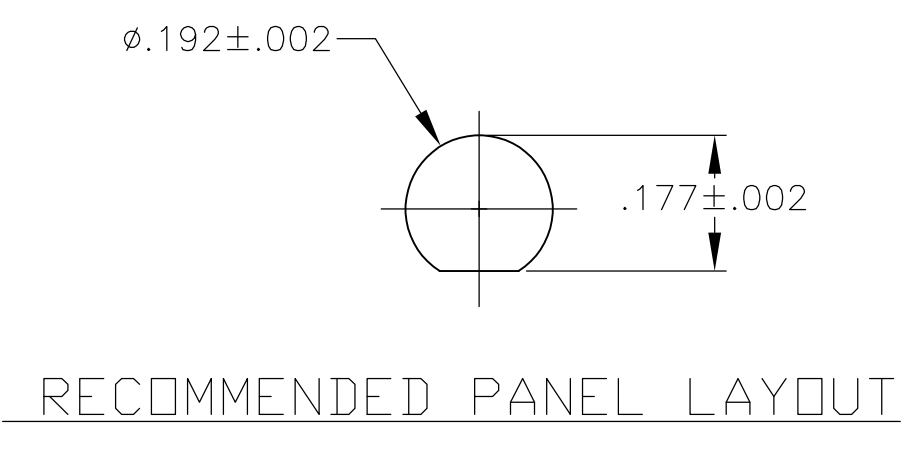
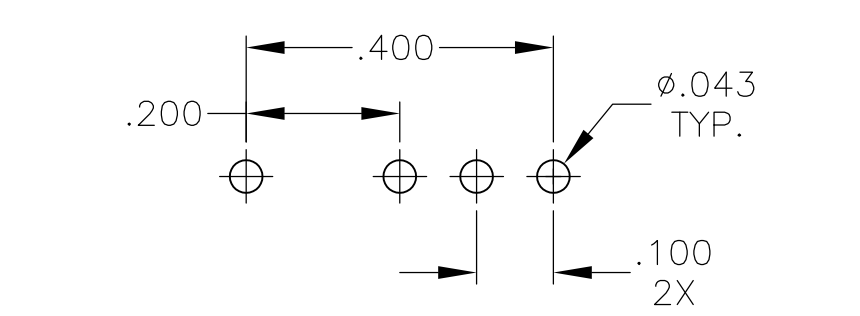
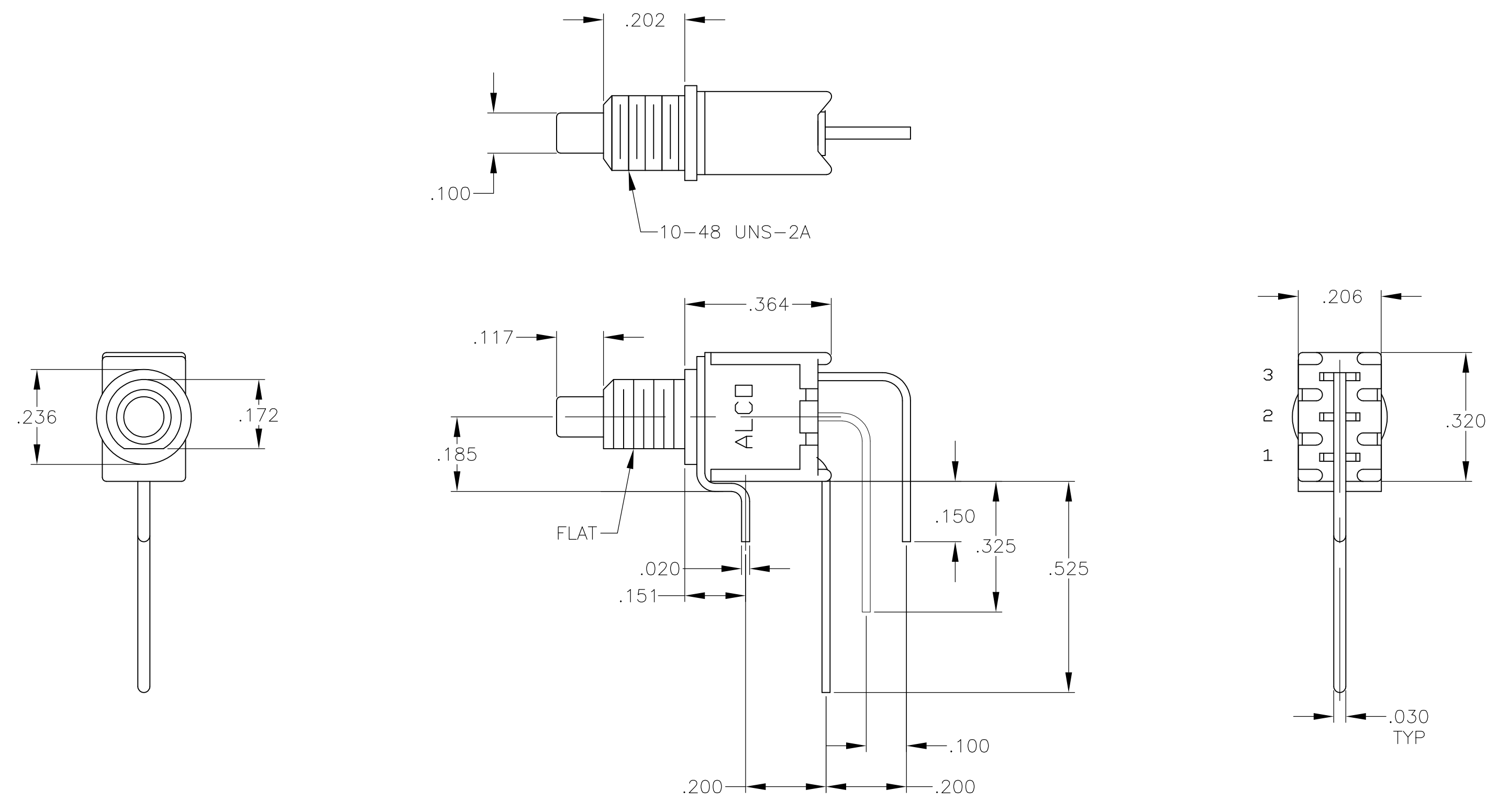
RECOMMENDED PCB LAYOUT
TOLERANCES +/- .002



RECOMMENDED PANEL LAYOUT

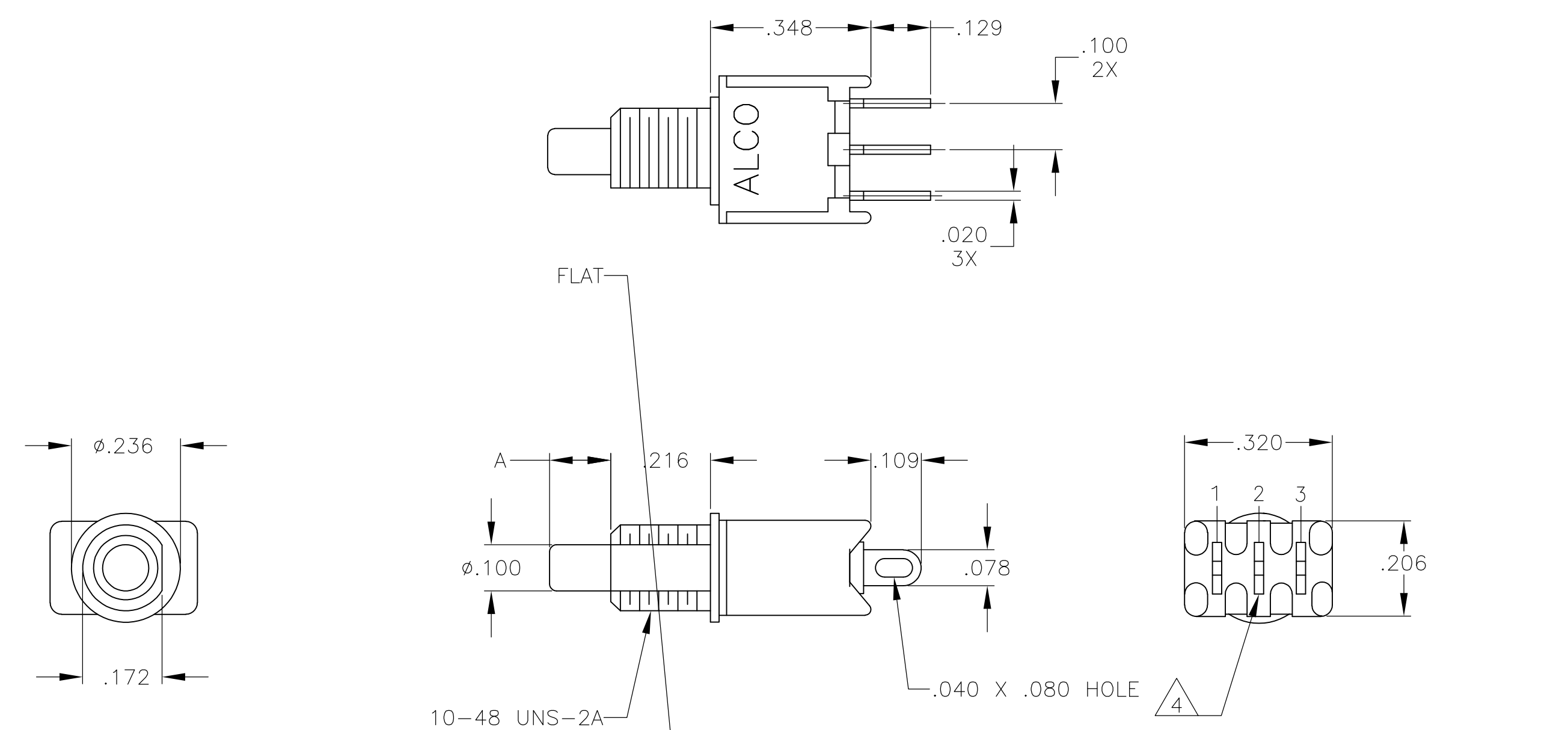
TPC21MGRA

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



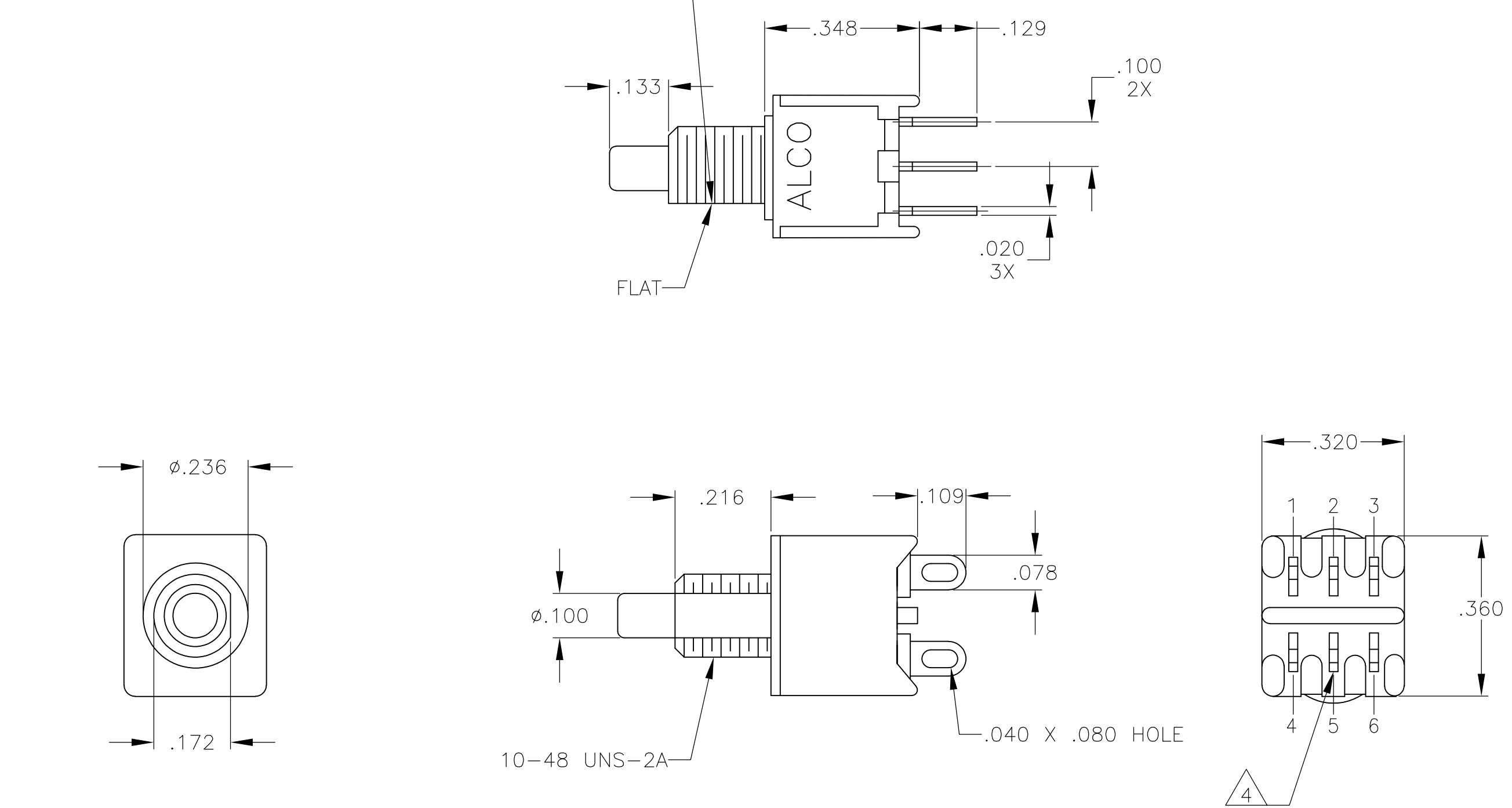
TPC11CGVRA, TPC11FGVRA

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



TPC13C, TPC13F,
TPCF13C, TPC13F

RECOMMENDED PANEL LAYOUT



TPC23M, TPC23R

RECOMMENDED PANEL LAYOUT

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.