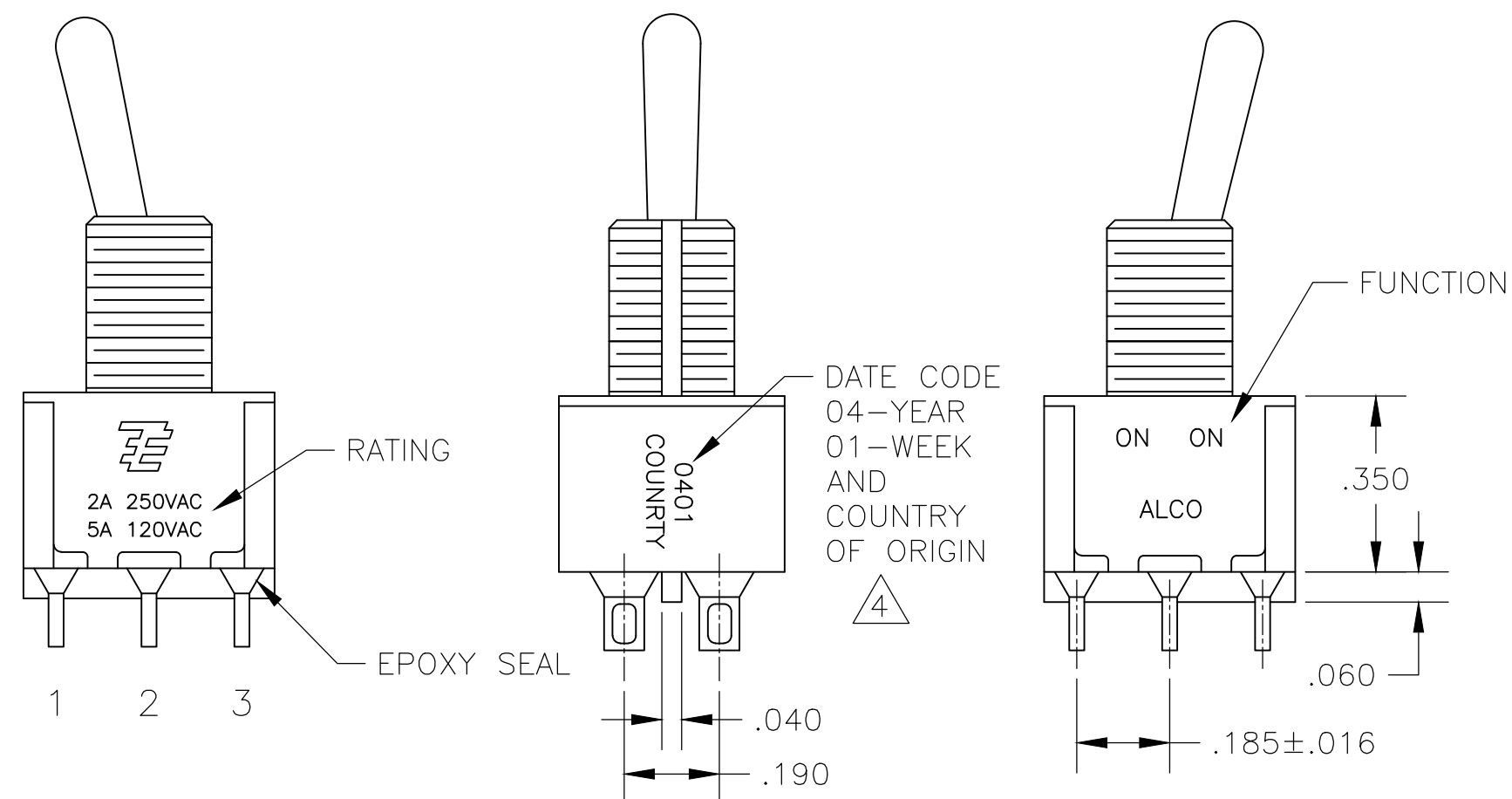
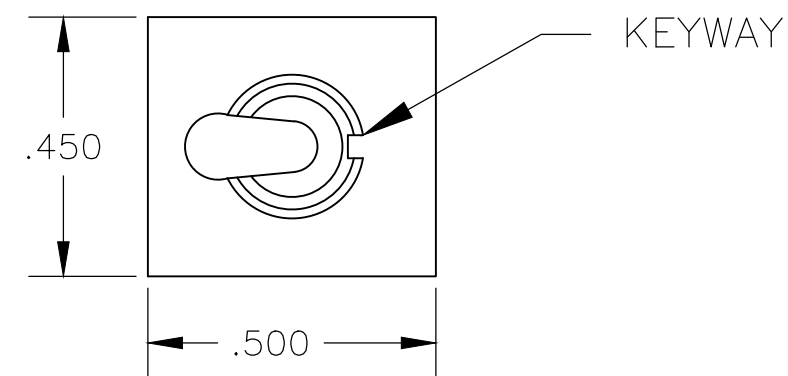
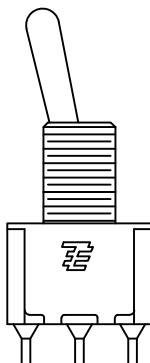
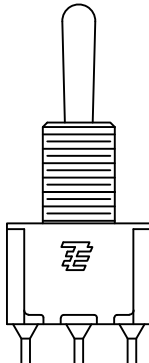
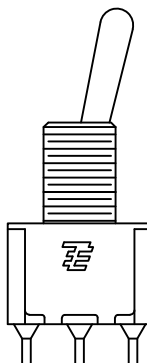




| SPECIFICATIONS CHART            |                                          |
|---------------------------------|------------------------------------------|
| RATING, B CONTACTS              | .4VA MAX @20V MAX. AC OR DC              |
| RATING, G CONTACTS—SEE NOTE 3   | .4VA MAX @20V MAX. AC OR DC OR           |
|                                 | 5A @120 VAC OR 28 VDC (RESISTIVE)        |
|                                 | 2A @250 VAC (RESISTIVE)                  |
| RATING, Q CONTACTS              | 5A @120 VAC OR 28 VDC (RESISTIVE)        |
|                                 | 2A @250 VAC (RESISTIVE)                  |
| ELECTRICAL LIFE                 | 6,000 CYCLES AT RATED LOAD               |
| CONTACT RESISTANCE              | 10 MILLIOHMS MAX INITIAL @ 2–4VDC, 100ma |
| INSULATION RESISTANCE           | 1,000 MEGOHMS MIN                        |
| DIELECTRIC WITHSTANDING VOLTAGE | 1,000 V RMS AT SEA LEVEL                 |
| OPERATING TEMPRATURE            | –30C TO 85C                              |

- 1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).
- 2 EACH SWITCH WITH THREADED BUSHINGS SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:
  - (2) HEX NUTS
  - (1) INTERNAL TOOTH LOCKWASHER
  - (1) LOCATING RING.
- 3 G CONTACT OPTION CAN BE USED FOR SIGNAL OR POWER LEVEL SWITCHING. IF SWITCH IS USED AT LEVELS EXCEEDING .4VA @ 20V AC/DC, SWITCH IS RENDERED FOR POWER SWITCHING ONLY DUE TO ARC REMOVAL OF GOLD PLATING. RATING MARKED ON FRAME IS 2A 250VAC, 5A 120 VAC.
- 4 DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.
- 5 LENGTH OF TOGGLE REDUCED BY .020 WITH A, AV2, V30 OR V40 VERTICAL SUPPORT BRACKET OPTIONS.
- 6 ALL LOGO, RATING, DATE CODE, AND FUNCTION MARKINGS TO BE LASER MARKED.

| FUNCTION CHART      |                                                                                     |                                                                                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| FUNCTION            |  |  |  |
|                     | 1 2 3<br>4 5 6                                                                      | 1 2 3<br>4 5 6                                                                      | 1 2 3<br>4 5 6                                                                      |
| 01                  | ON                                                                                  | NONE                                                                                | ON                                                                                  |
| 08                  | ON                                                                                  | NONE                                                                                | (ON)                                                                                |
| TERMINALS CONNECTED | 2-3, 5-6                                                                            | ---                                                                                 | 1-2, 4-5                                                                            |

None: No mechanical position  
Off: Mechanical position with no electrical connection  
(On): Momentary action

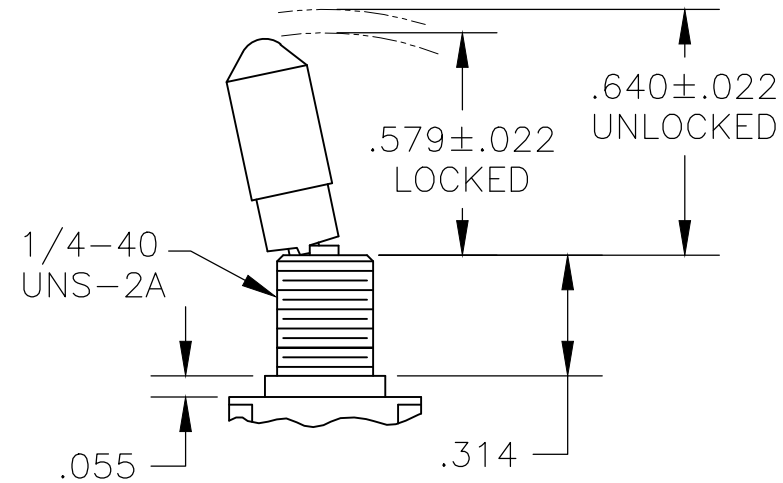
| PART NUMBER SEQUENCE CHART |          |        |         |          |         |      |
|----------------------------|----------|--------|---------|----------|---------|------|
| MODEL                      | FUNCTION | TOGGLE | BUSHING | TERMINAL | CONTACT | RoHS |
| SAMPLE: A201SYCQ04         | 01       | K      | CW      | A        | B       | 04   |
|                            | 08       | K1     | D       | AV2      | G       |      |
|                            |          | L      | D9      | C        | Q       |      |
|                            |          | L1     | H       | V30      |         |      |
|                            |          | L2     | Y       | V40      |         |      |
|                            |          | M      | Y9      | V70      |         |      |
|                            |          | P3     |         | W        |         |      |
|                            |          | S      |         | W4       |         |      |
|                            |          | T      |         | Z        |         |      |
|                            |          | T1     |         | Z3       |         |      |

EXAMPLE: A201SYCQ04

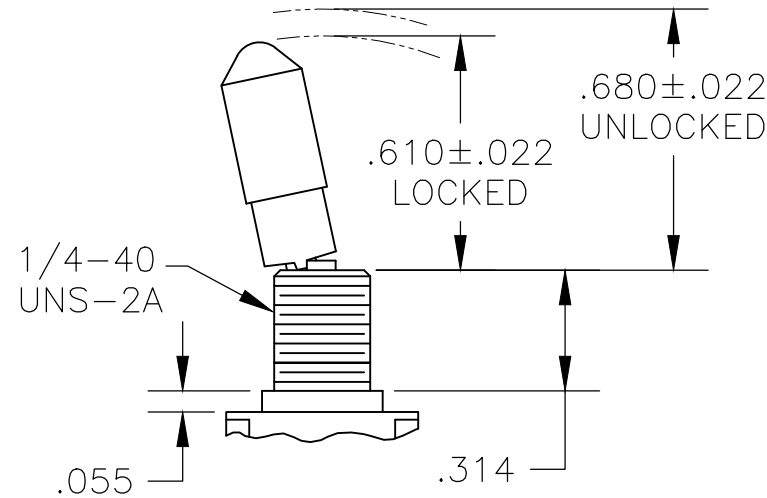
|                                                                                                                |  |                                                                                                                             |  |                                                                                                       |                    |
|----------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                         |  | DWN<br>M. ZITTO<br>18MAY05<br>CHK<br>M. ZITTO<br>APVD<br>M. ZITTO<br>PRODUCT SPEC<br>APPLICATION SPEC<br>                   |  |  TE Connectivity |                    |
| DIMENSIONS:<br>INCHES<br> |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± —<br>1 PLC ± —<br>2 PLC ± —<br>3 PLC ± .010<br>4 PLC ± —<br>ANGLES ± ± 2° |  | NAME<br>GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,<br>2 POSITION FUNCTIONS (01 & 08)<br>—            |                    |
| MATERIAL<br>—                                                                                                  |  | FINISH<br>—                                                                                                                 |  | SIZE<br>A2                                                                                            | CAGE CODE<br>00779 |
|                                                                                                                |  | WEIGHT                                                                                                                      |  | DRAWING NO<br>C-1825138                                                                               | RESTRICTED TO<br>— |
| CUSTOMER DRAWING                                                                                               |  |                                                                                                                             |  | SCALE<br>3:1                                                                                          | SHEET<br>1 OF 4    |
|                                                                                                                |  |                                                                                                                             |  | REV<br>A6                                                                                             |                    |

## M SHORT

| DIM L | BUSHING TYPE | DIM L | BUSHING TYPE |
|-------|--------------|-------|--------------|
| .200  | Y, H         | .410  | Y, H         |
| .270  | D, D9        | .480  | D, D9        |



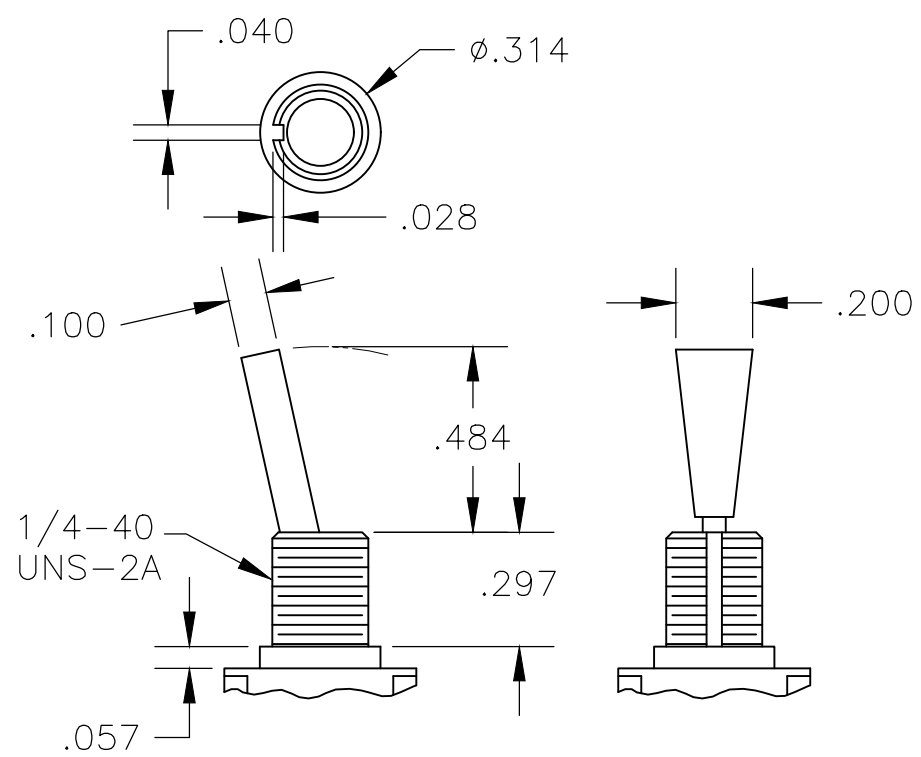
☐ NO BUSHING OPTION NEEDED



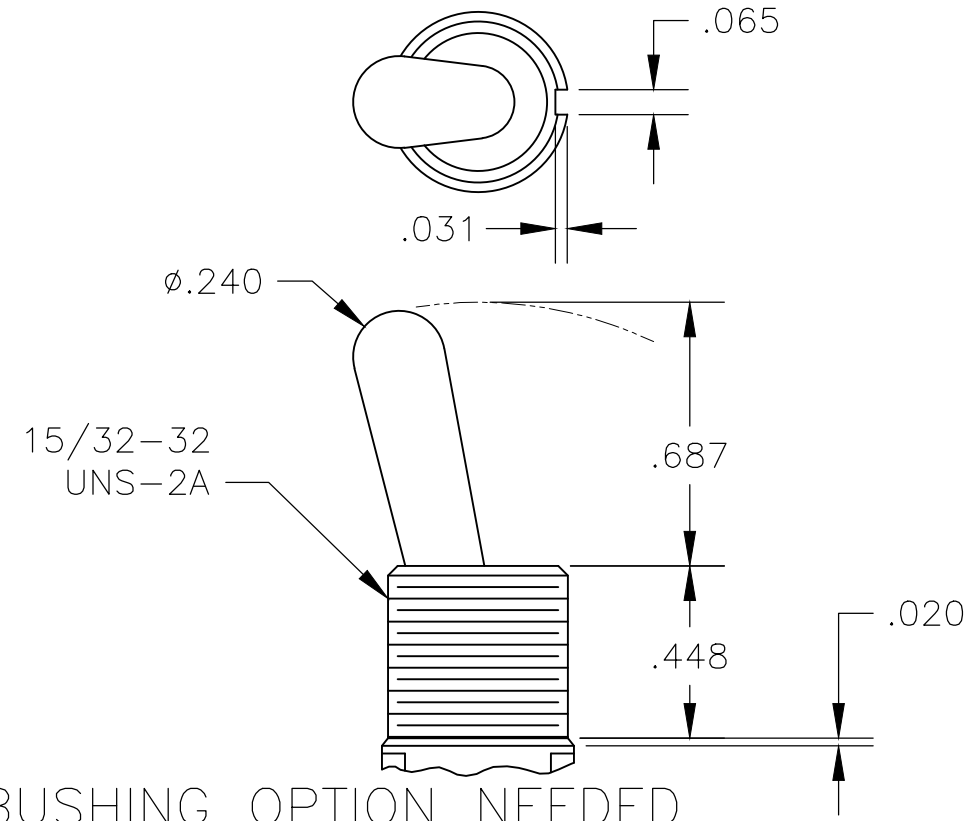
K1  
NO BUSHING OPTION NEEDED



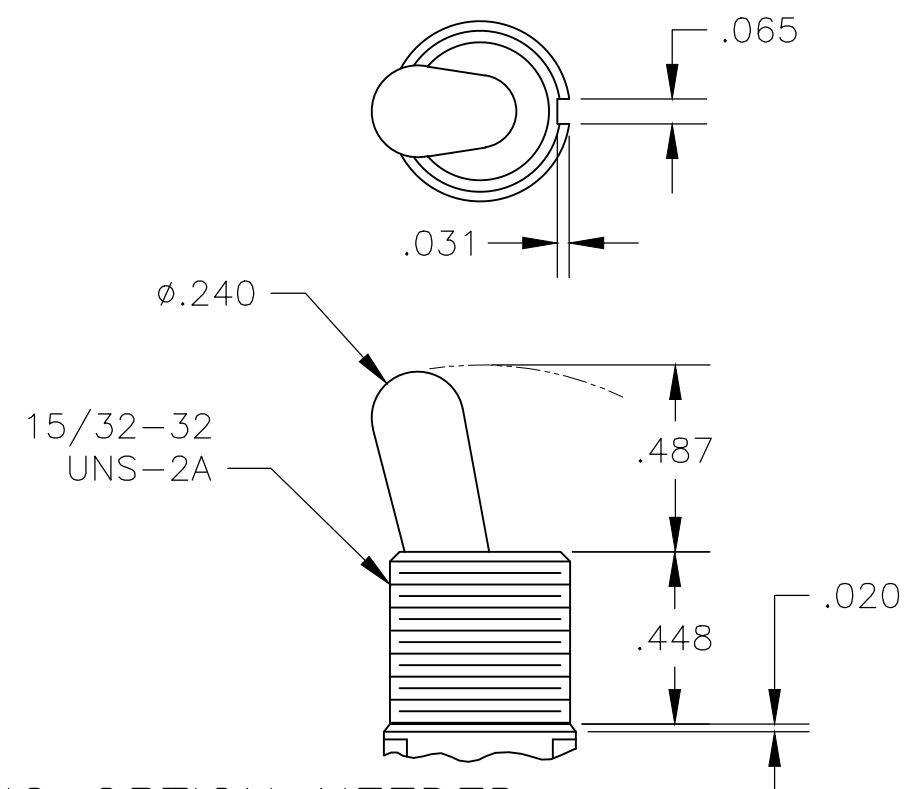
|       |              |       |              |       |              |
|-------|--------------|-------|--------------|-------|--------------|
| DIM L | BUSHING TYPE | DIM L | BUSHING TYPE | DIM L | BUSHING TYPE |
| .840  | Y, H         | .640  | Y, H         | .550  | Y, H         |
| .910  | D, D9        | .710  | D, D9        | .620  | D, D9        |



P3 NO BUSHING OPTION NEEDED



☐ NO BUSHING OPTION NEEDED

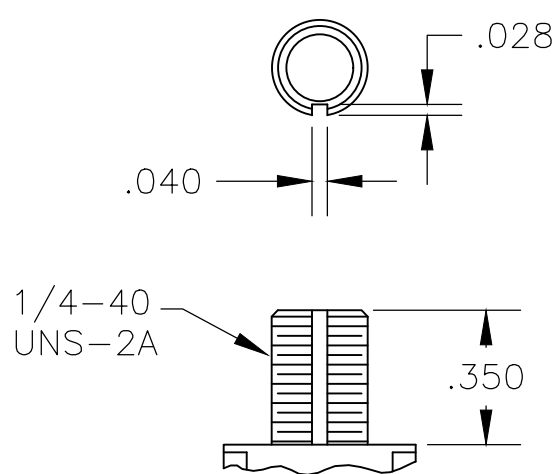


T1 NO BUSHING OPTION NEEDED

Technical drawing of a bolt and nut assembly. The bolt is labeled  $1/4-40$  UNS-2A. Dimensions shown are  $.040$  for the bolt diameter,  $.028$  for the nut height, and  $.280$  for the bolt length.

#### D THREADED

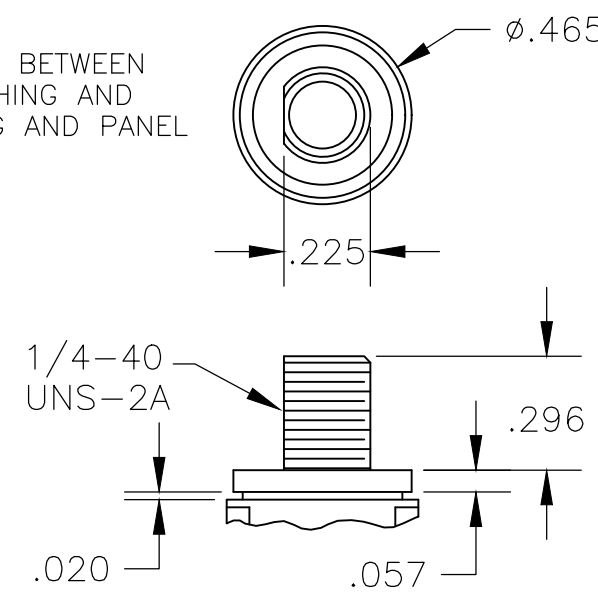
D9 UNTHREADED



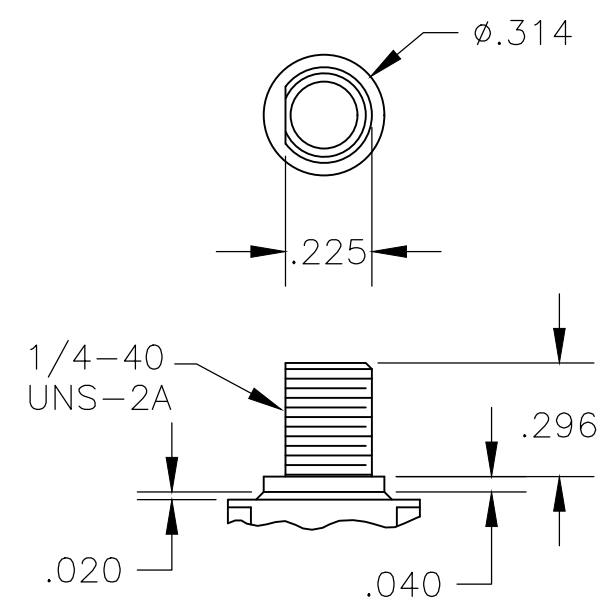
# Y THREADED

Y9 UNTHREADED

CONTAINS O-RING BETWEEN  
TOGGLE AND BUSHING AND  
BETWEEN BUSHING AND PANEL



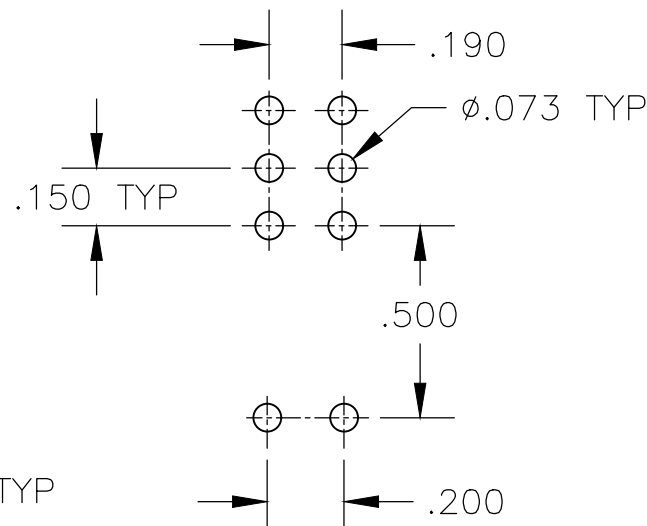
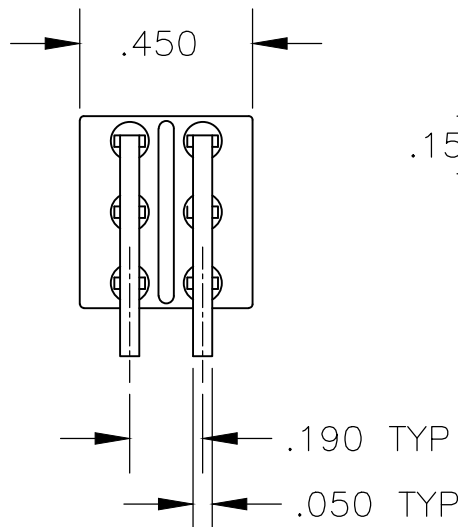
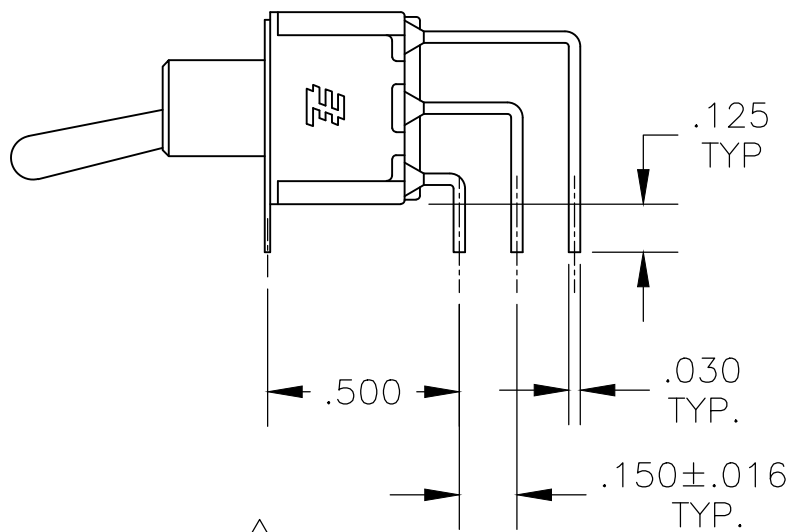
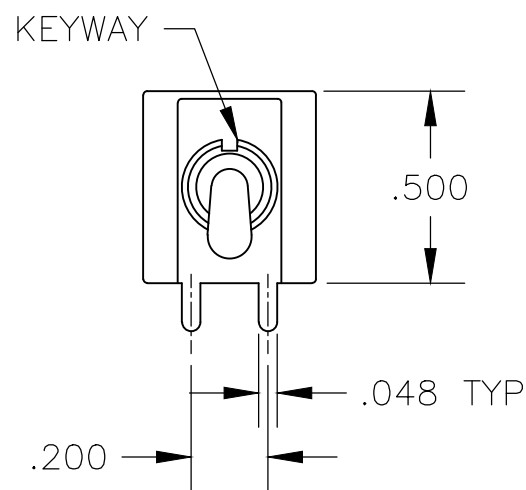
CW THREADED SPLASHPROOF



☐ HIGH TORQUE

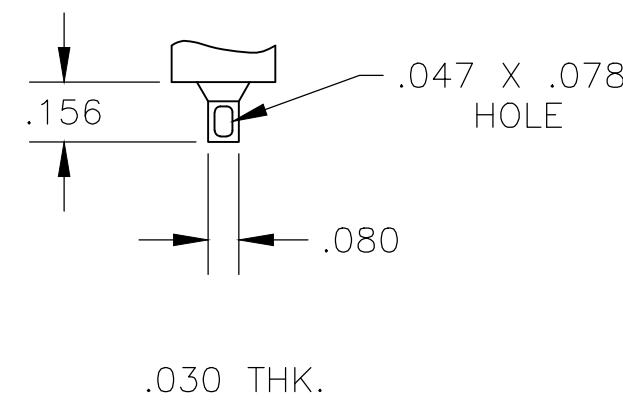
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |

D

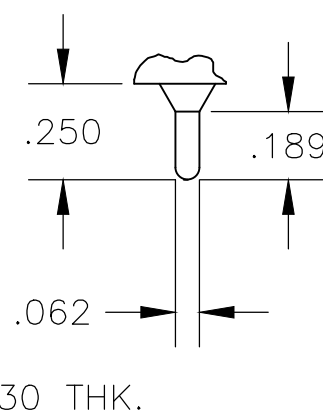


RECOMMENDED  
PCB LAYOUT

AV2 VERTICAL RIGHT ANGLE 5

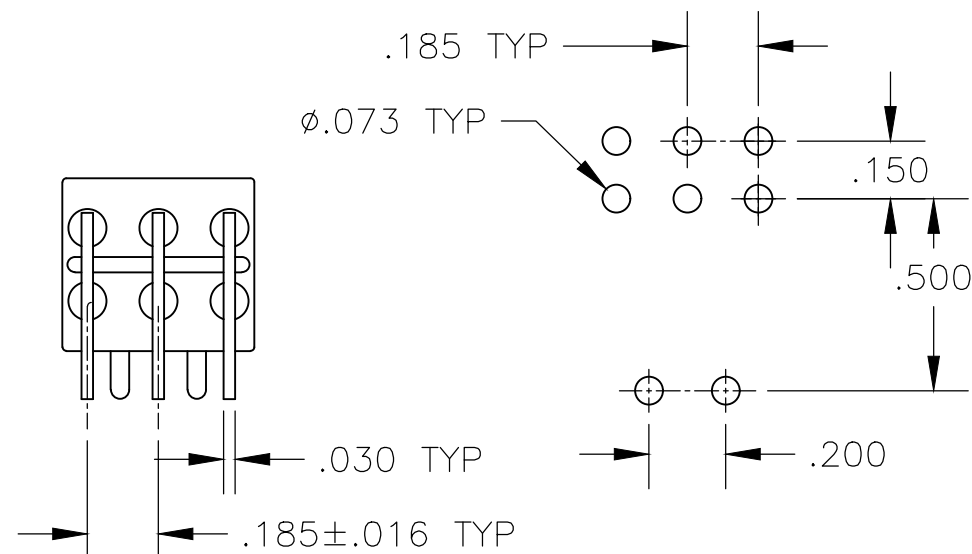
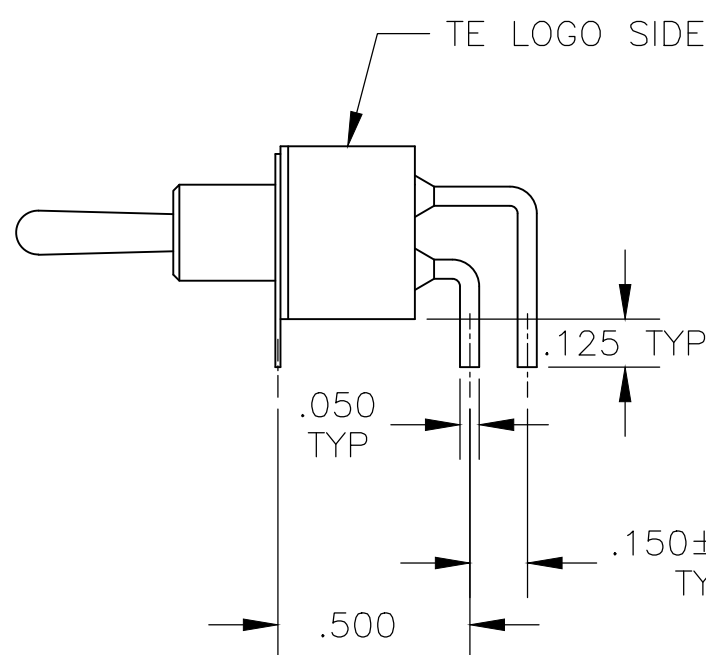
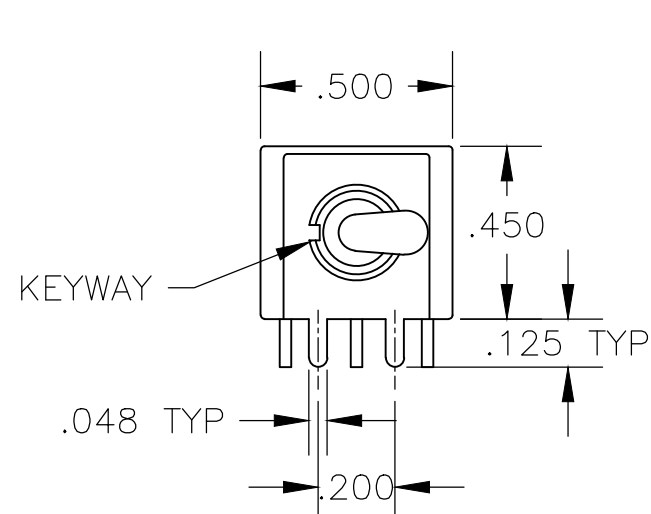


Z WIRE LUG



Z3 QUICK CONNECT

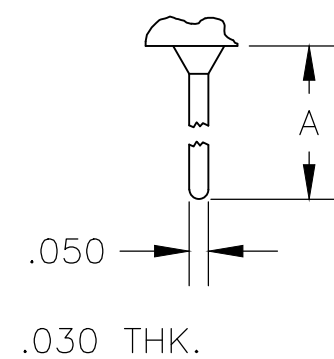
C



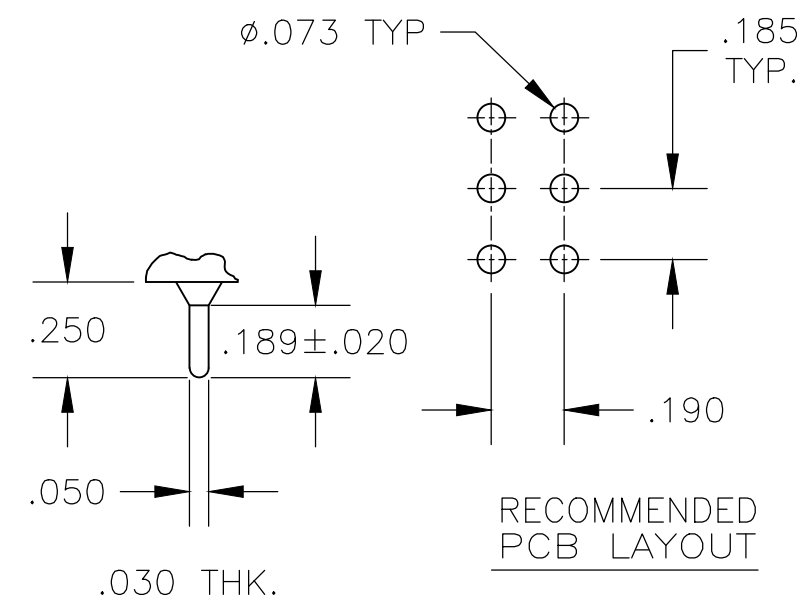
RECOMMENDED  
PCB LAYOUT

A RIGHT ANGLE 5

| OPTION | DIM A |
|--------|-------|
| W      | .736  |
| W4     | 1.062 |



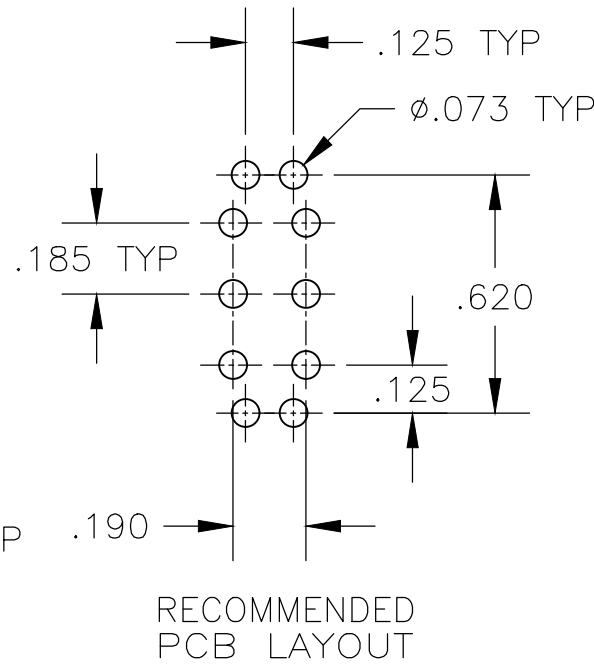
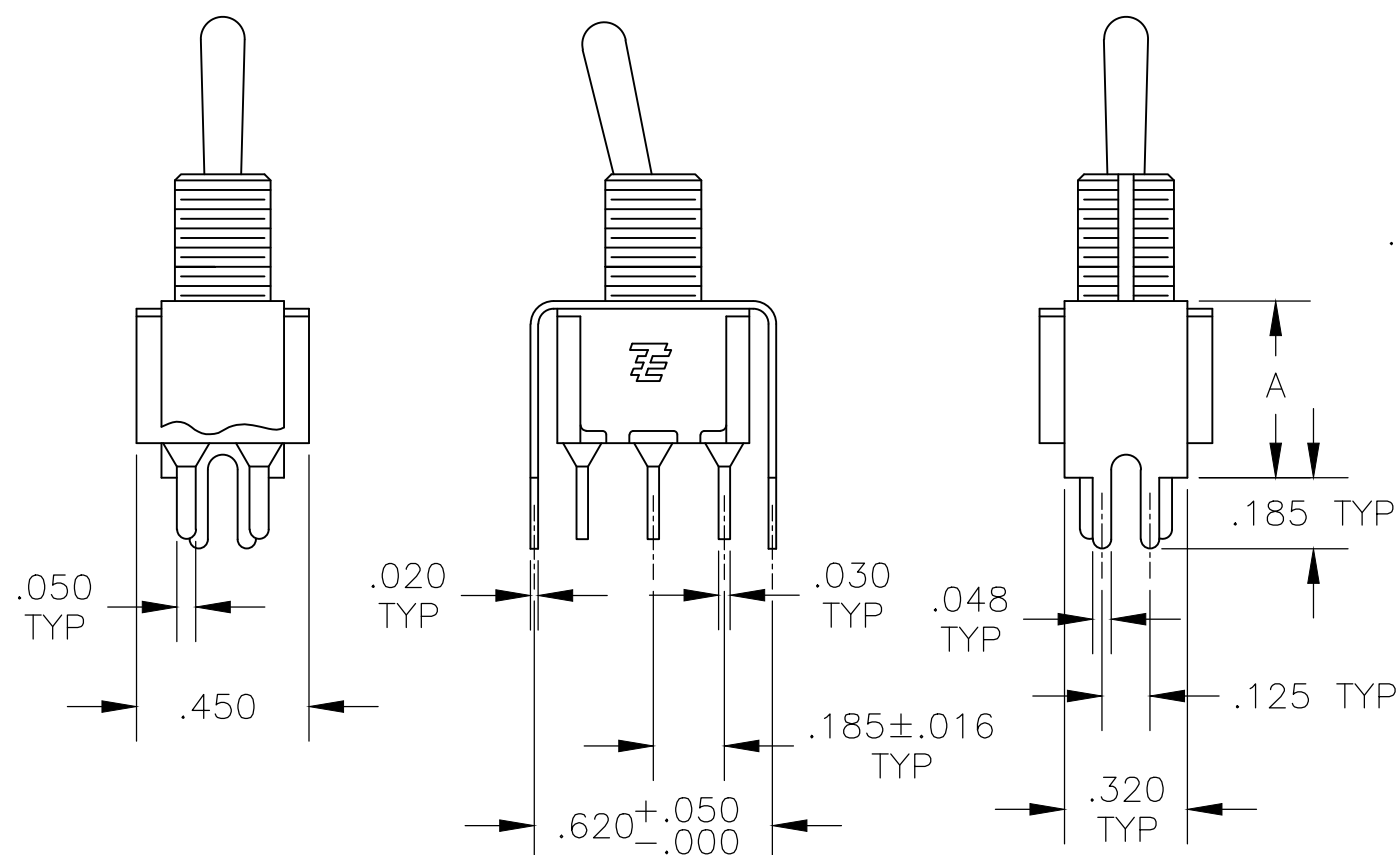
W W4 WIRE WRAP



RECOMMENDED  
PCB LAYOUT

C PRINTED CIRCUIT

B



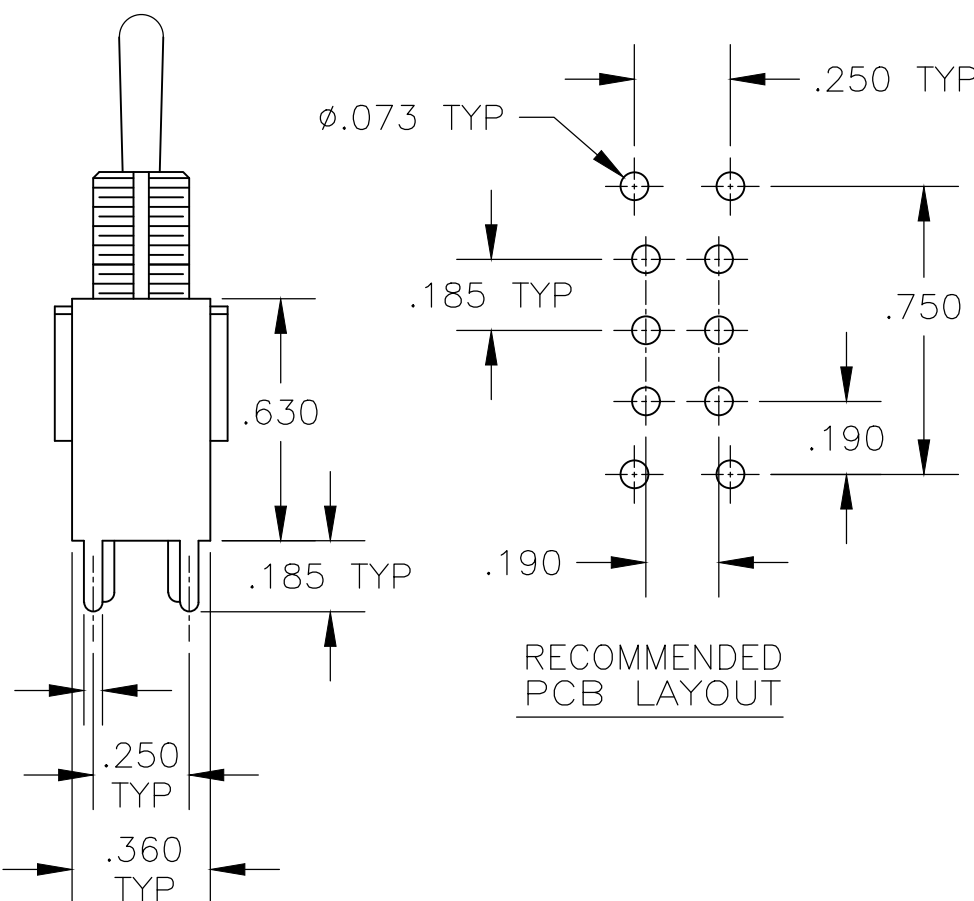
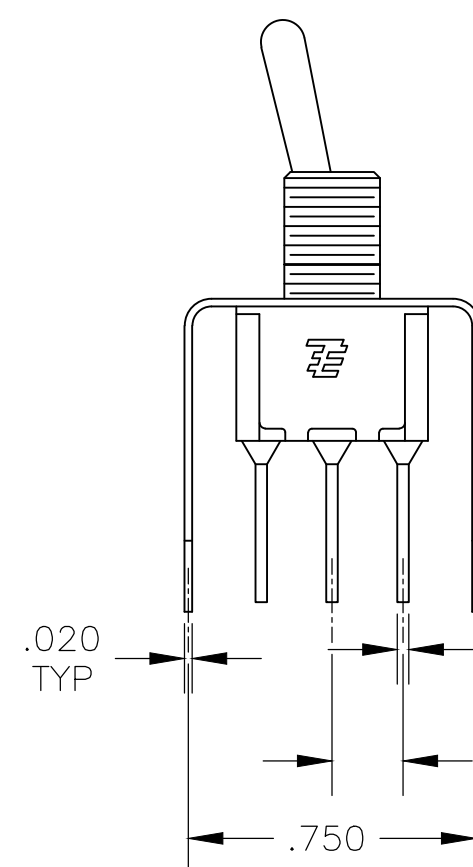
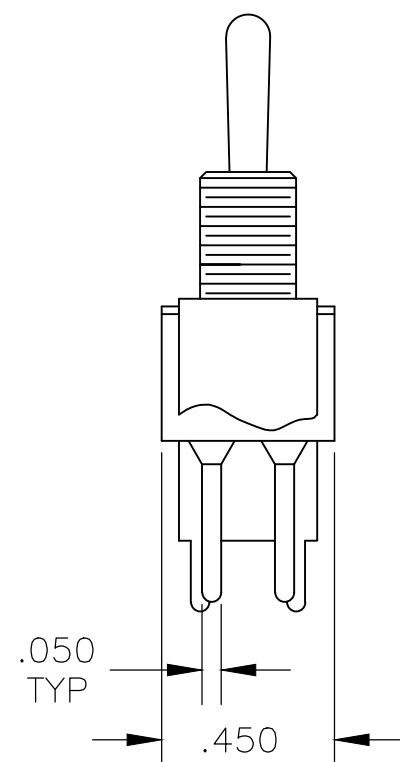
RECOMMENDED  
PCB LAYOUT

| OPTION | DIM A |
|--------|-------|
| V30    | .460  |
| V40    | .630  |

V30 V40 5  
VERTICAL SUPPORT BRACKET

V70

VERTICAL SUPPORT BRACKET



RECOMMENDED  
PCB LAYOUT

A

|                                         |  |                  |         |                                                                                       |                    |
|-----------------------------------------|--|------------------|---------|---------------------------------------------------------------------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.  |  | DWN<br>M. ZITTO  | 18MAY05 | TE Connectivity                                                                       |                    |
| DIMENSIONS:<br>INCHES                   |  | CHK<br>M. ZITTO  | -       |                                                                                       |                    |
|                                         |  | APVD<br>M. ZITTO | -       | NAME<br>GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,<br>2 POSITION FUNCTIONS (01 & 08) |                    |
|                                         |  | PRODUCT SPEC     | -       |                                                                                       |                    |
| TOLERANCES, UNLESS OTHERWISE SPECIFIED: |  | APPLICATION SPEC | -       | SIZE<br>A2                                                                            | CAGE CODE<br>00779 |
| MATERIAL                                |  | FINISH           | -       | DRAWING NO<br>C=1825138                                                               | RESTRICTED TO<br>- |
|                                         |  | WEIGHT           | 0       | SCALE<br>3:1                                                                          | SHEET<br>3 of 4    |
|                                         |  | CUSTOMER DRAWING | -       | REV<br>A6                                                                             |                    |



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By

REVISIONS

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

| Alco P/N       | P/N         |          |
|----------------|-------------|----------|
| A201KAB04      | 1825138-1   |          |
| A201KD9AQ04    | 1825138-2   | OBSOLETE |
| A201KZQ04      | 1825138-3   |          |
| not assigned   | 1825138-4   | OBSOLETE |
| A201L1D9V30Q04 | 1825138-5   |          |
| A201MD9AB04    | 1825138-6   |          |
| A201MD9AQ04    | 1825138-7   |          |
| A201MD9AV2B04  | 1825138-8   |          |
| A201MD9AV2Q04  | 1825138-9   |          |
| A201MDAQ04     | 1-1825138-0 |          |
| not assigned   | 1-1825138-1 | OBSOLETE |
| A201MYAQ04     | 1-1825138-2 |          |
| A201MYCB04     | 1-1825138-3 |          |
| A201MYZQ04     | 1-1825138-4 |          |
| A201P3ZQ04     | 1-1825138-5 |          |
| A201SCWZB04    | 1-1825138-6 |          |
| A201SD9AQ04    | 1-1825138-7 |          |
| A201SD9AV2Q04  | 1-1825138-8 |          |
| A201SDCB04     | 1-1825138-9 | OBSOLETE |
| A201SDZQ04     | 2-1825138-0 |          |
| A201SY9AB04    | 2-1825138-1 | OBSOLETE |
| A201SYAB04     | 2-1825138-2 |          |
| A201SYAQ04     | 2-1825138-3 |          |
| A201SYCB04     | 2-1825138-4 |          |
| A201SYCQ04     | 2-1825138-5 |          |
| A201SYWQ04     | 2-1825138-6 |          |
| A201SYZB04     | 2-1825138-7 |          |
| A201SYZQ04     | 2-1825138-8 |          |
| A201T1ZQ04     | 2-1825138-9 |          |
| not assigned   | 3-1825138-0 | OBSOLETE |
| A201TZQ04      | 3-1825138-1 |          |
| A208KZG04      | 3-1825138-2 | OBSOLETE |
| A208P3ZQ04     | 3-1825138-3 |          |
| A208SD9AQ04    | 3-1825138-4 | OBSOLETE |
| A208SD9AV2Q04  | 3-1825138-5 |          |
| A208SYCB04     | 3-1825138-6 |          |
| A208SYCQ04     | 3-1825138-7 |          |
| A208SYZQ04     | 3-1825138-8 |          |
| A208T1ZQ04     | 3-1825138-9 | OBSOLETE |
| A208TZQ04      | 4-1825138-0 |          |
| A208SDCQ04     | 4-1825138-1 |          |
| A201P3V30G04   | 4-1825138-2 |          |
| A203MD9AQ-UL   | 4-1825138-3 | OBSOLETE |
| A201MCWCB04    | 4-1825138-4 |          |
| A201SCWCB04    | 4-1825138-5 |          |

RECOMMENDED PANEL CUT-OUTS

| BUSHING SIZE | WITHOUT LOCKING RING | WITH STANDARD LOCKING RING |
|--------------|----------------------|----------------------------|
| 1/4          |                      |                            |
| 15/32        |                      |                            |

MATERIALS CHART

| COMPONENT NAME         | BASE MATERIAL             |                  |
|------------------------|---------------------------|------------------|
| CASE                   | DAP, RED, UL94 V-0        |                  |
| FRAME                  | STAINLESS STEEL           | FINISH           |
| B TERMINALS & CONTACTS | COPPER                    | GOLD OVER NICKEL |
| G TERMINALS & CONTACTS | COPPER                    | GOLD OVER SILVER |
| Q TERMINALS & CONTACTS | COPPER                    | .000400 SILVER   |
| ACTUATOR               | PHENOLIC, BLACK, UL94 V-1 |                  |
| LEVER                  | BRASS                     | CHROME           |
| BUSHING                | BRASS                     | NICKEL           |
| SPRING                 | MUSIC WIRE                |                  |
| SUPPORT BRACKET        | BRASS                     | TIN              |
| PIVOT PIN              | STEEL                     | NICKEL           |
| LOCK WASHER            | STAINLESS STEEL           |                  |
| LOCKING RING           | STAINLESS STEEL           |                  |
| NUTS                   | C3604BD BRASS             | NICKEL           |
| TERMINAL SEAL          | EPOXY                     |                  |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES, UNLESS OTHERWISE SPECIFIED:

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

MATERIAL

-

FINISH

-

DWN M. ZITTO 18MAY05

CHK M. ZITTO

APVD M. ZITTO

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

TE Connectivity

GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 2 POSITION FUNCTIONS (01 & 08)

SIZE A2 CAGE CODE 00779 DRAWING NO C-1825138 RESTRICTED TO -

SCALE 3:1 SHEET 4 OF 4 REV A6

1471-9 (1/15)

# Mouser Electronics

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