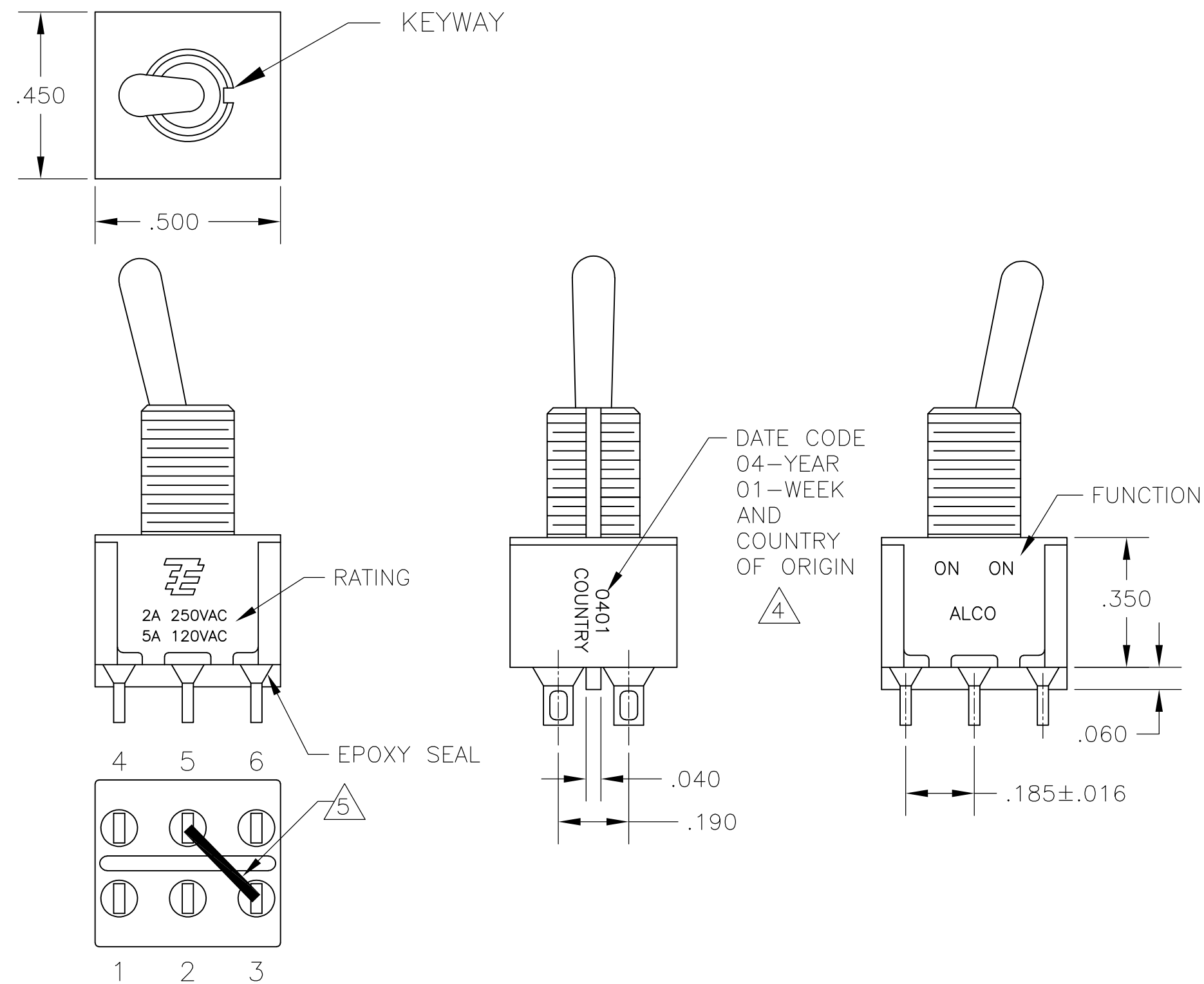
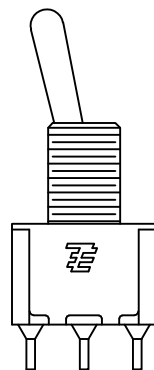
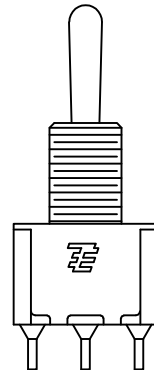
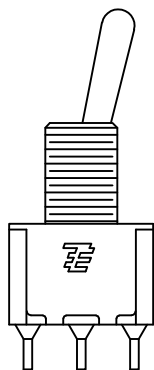
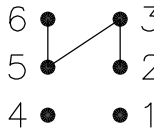
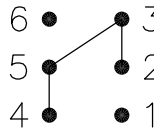
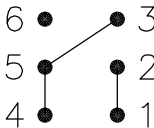


| REVISIONS |     |                           |           |     |      |
|-----------|-----|---------------------------|-----------|-----|------|
| P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|           | A5  | REVISED PER ECO-17-001328 | 02FEB2017 | RK  | SS   |



| FUNCTION CHART                                     |                                                                                     |                                                                                     |                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| FUNCTION                                           |  |  |  |
| 03                                                 | ON                                                                                  | OFF                                                                                 | ON                                                                                    |
| 05                                                 | (ON)                                                                                | OFF                                                                                 | (ON)                                                                                  |
| 07                                                 | ON                                                                                  | OFF                                                                                 | (ON)                                                                                  |
| TERMINALS CONNECTED                                | 2-3, 5-6                                                                            | ---                                                                                 | 1-2, 4-5                                                                              |
| 11                                                 | ON                                                                                  | ON                                                                                  | ON                                                                                    |
| 13                                                 | ON                                                                                  | ON                                                                                  | (ON)                                                                                  |
| 15                                                 | (ON)                                                                                | ON                                                                                  | (ON)                                                                                  |
| TERMINALS CONNECTED                                | 2-3, 5-6                                                                            | 2-3, 4-5                                                                            | 1-2, 4-5                                                                              |
| SP3T SCHEMATIC<br>(11, 13 & 15 ONLY)<br>SEE NOTE 5 |  |  |  |
|                                                    | IN 2, OUT 6                                                                         | IN 2, OUT 4                                                                         | IN 2, OUT 1                                                                           |

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

- 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 120VAC.
- 4 DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.
- 5 SP3T FUNCTION ACHIEVED WITH FUNCTIONS 11, 13 & 15 BY CUSTOMER APPLIED JUMPER  
BETWEEN TERMINALS 3 AND 5.
- 6 LENGTH OF TOGGLE REDUCED BY .020 WITH A, AV2, V30 OR V40 VERTICAL SUPPORT BRACKET.
- 7 ALL LOGO, RATING, DATE CODE, AND FUNCTION MARKINGS TO BE LASER MARKED.

| 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                              |

| PART NUMBER SEQUENCE CHART |          |        |         |          |         |      |
|----------------------------|----------|--------|---------|----------|---------|------|
| MODEL                      | FUNCTION | TOGGLE | BUSHING | TERMINAL | CONTACT | RoHS |
| A2                         | 03       | K      | CW      | A        | B       | 04   |
|                            | 05       | K1     | D       | AV2      | G       |      |
|                            | 07       | L      | D9      | C        | Q       |      |
|                            | 11       | L1     | H       | V30      |         |      |
|                            | 13       | L2     | Y       | V40      |         |      |
|                            | 15       | M      | Y9      | V70      |         |      |
|                            |          | P3     |         | W        |         |      |
|                            |          | S      |         | W4       |         |      |
|                            |          | T      |         | Z        |         |      |
|                            |          | T1     |         | Z3       |         |      |

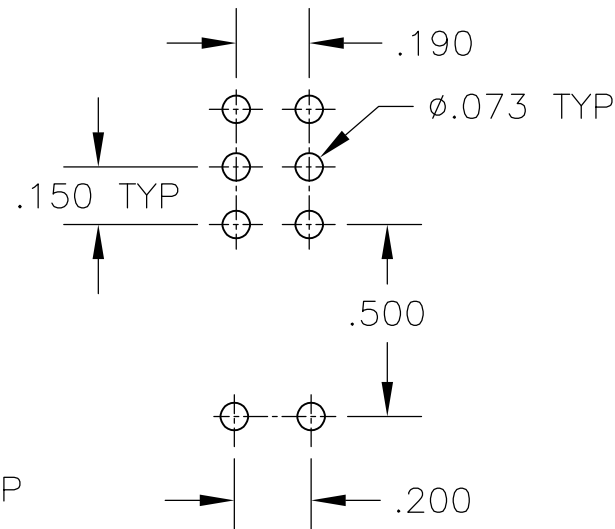
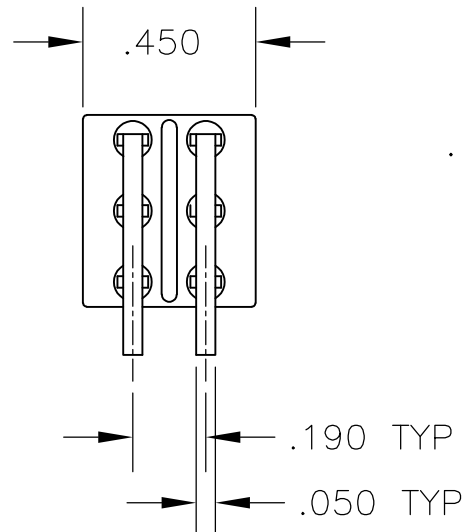
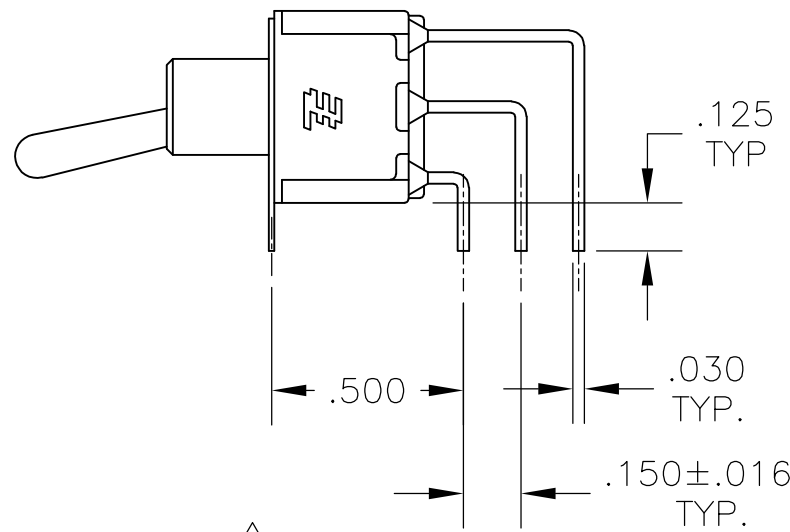
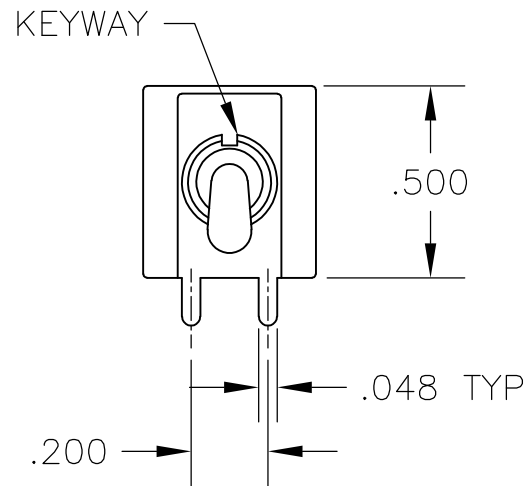
EXAMPLE: A207SYZQ04

|                                                                                       |  |                                           |  |                  |  |                                                                                                       |  |
|---------------------------------------------------------------------------------------|--|-------------------------------------------|--|------------------|--|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>M. ZITTO                           |  | 18MAY05          |  |  TE Connectivity |  |
|                                                                                       |  | CHK<br>M. ZITTO                           |  | —                |  |                                                                                                       |  |
| DIMENSIONS:<br>INCHES                                                                 |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED: |  | APVD<br>M. ZITTO |  | NAME                                                                                                  |  |
|  |  | 0 PLC ± —                                 |  | PRODUCT SPEC     |  | GEMINI A SERIES TOGGLE SWITCH,DOUBLE POLE,<br>3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)<br>—     |  |
|                                                                                       |  | 1 PLC ± —                                 |  | —                |  |                                                                                                       |  |
|                                                                                       |  | 2 PLC ± —                                 |  | APPLICATION SPEC |  |                                                                                                       |  |
|                                                                                       |  | 3 PLC ± .010                              |  | —                |  | SIZE                                                                                                  |  |
|                                                                                       |  | 4 PLC ± —                                 |  | —                |  | CAGE CODE                                                                                             |  |
|                                                                                       |  | ANGLES ± 2°                               |  | WEIGHT           |  | DRAWING NO                                                                                            |  |
| MATERIAL                                                                              |  | FINISH                                    |  | 0                |  | A2 00779                                                                                              |  |
| —                                                                                     |  | —                                         |  | CUSTOMER DRAWING |  | C-1825139                                                                                             |  |
|                                                                                       |  |                                           |  |                  |  | RESTRICTED TO                                                                                         |  |
|                                                                                       |  |                                           |  |                  |  | —                                                                                                     |  |
|                                                                                       |  |                                           |  |                  |  | SCALE 3:1                                                                                             |  |
|                                                                                       |  |                                           |  |                  |  | SHEET 1 of 4                                                                                          |  |
|                                                                                       |  |                                           |  |                  |  | REV A5                                                                                                |  |



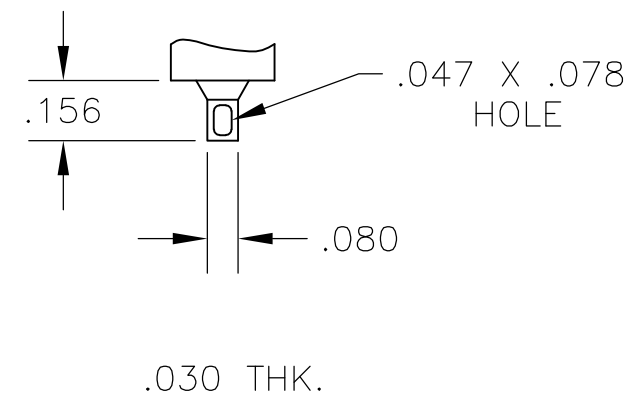
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |

D

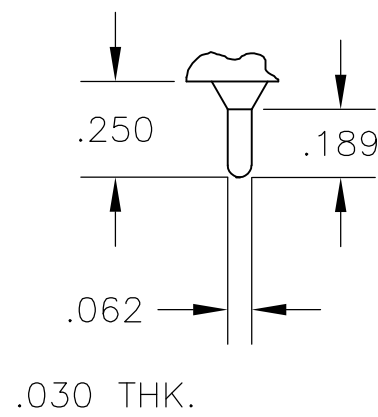


RECOMMENDED  
PCB LAYOUT

AV2 VERTICAL RIGHT ANGLE 6

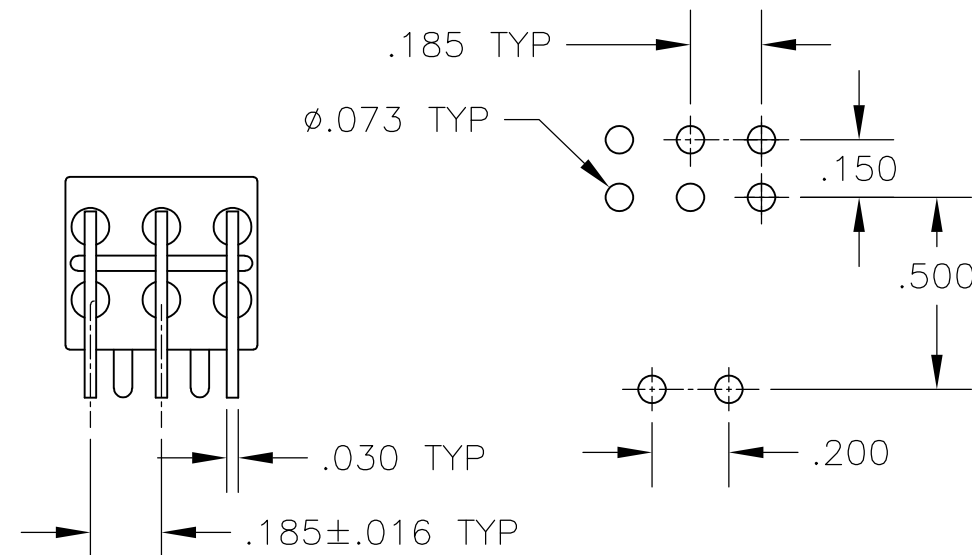
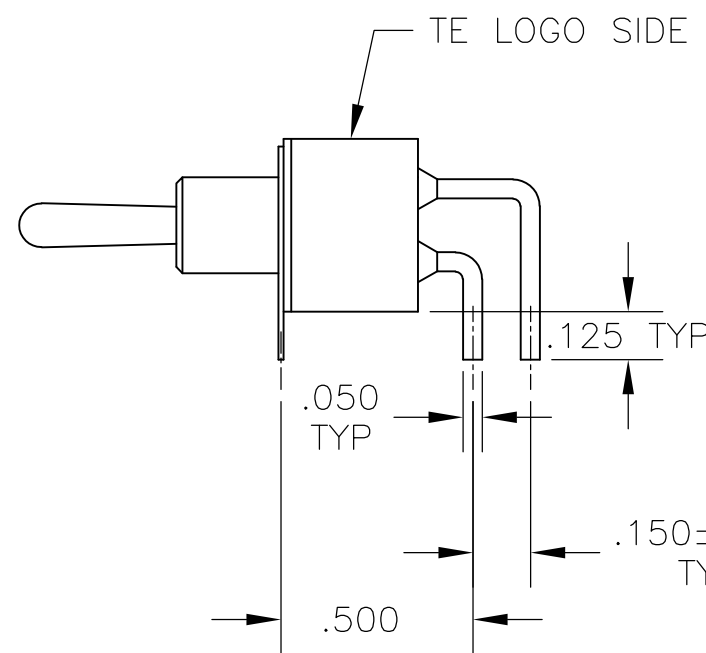
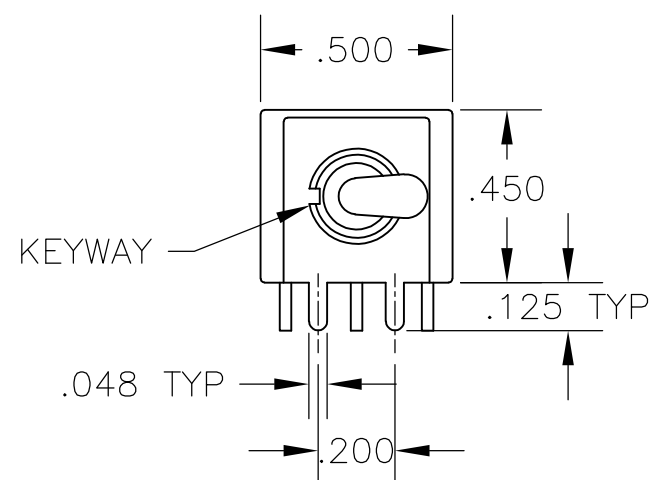


Z WIRE LUG



Z3 QUICK CONNECT

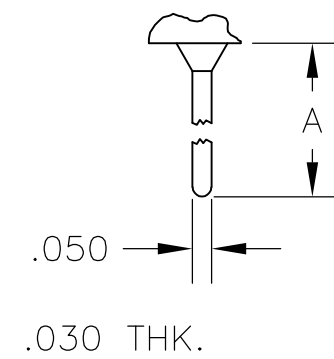
C



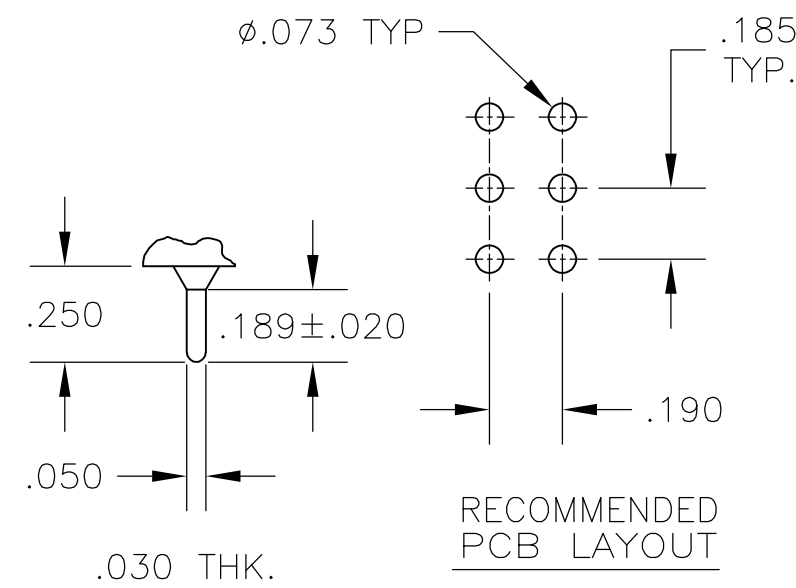
RECOMMENDED  
PCB LAYOUT

A RIGHT ANGLE 6

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

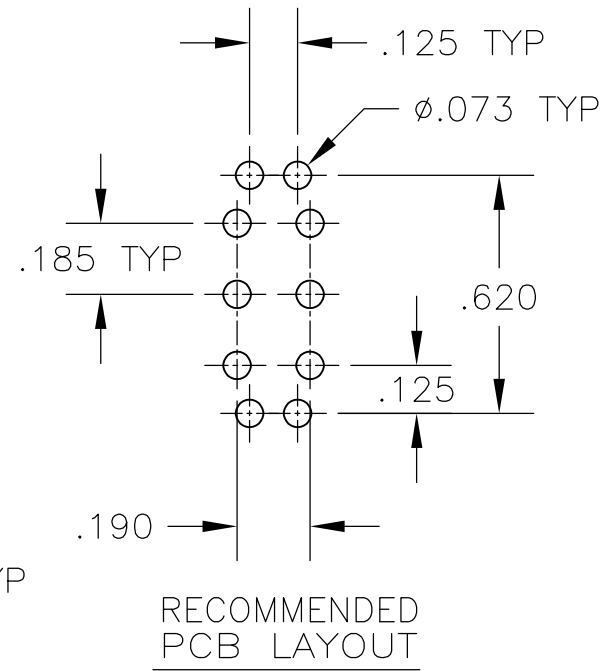
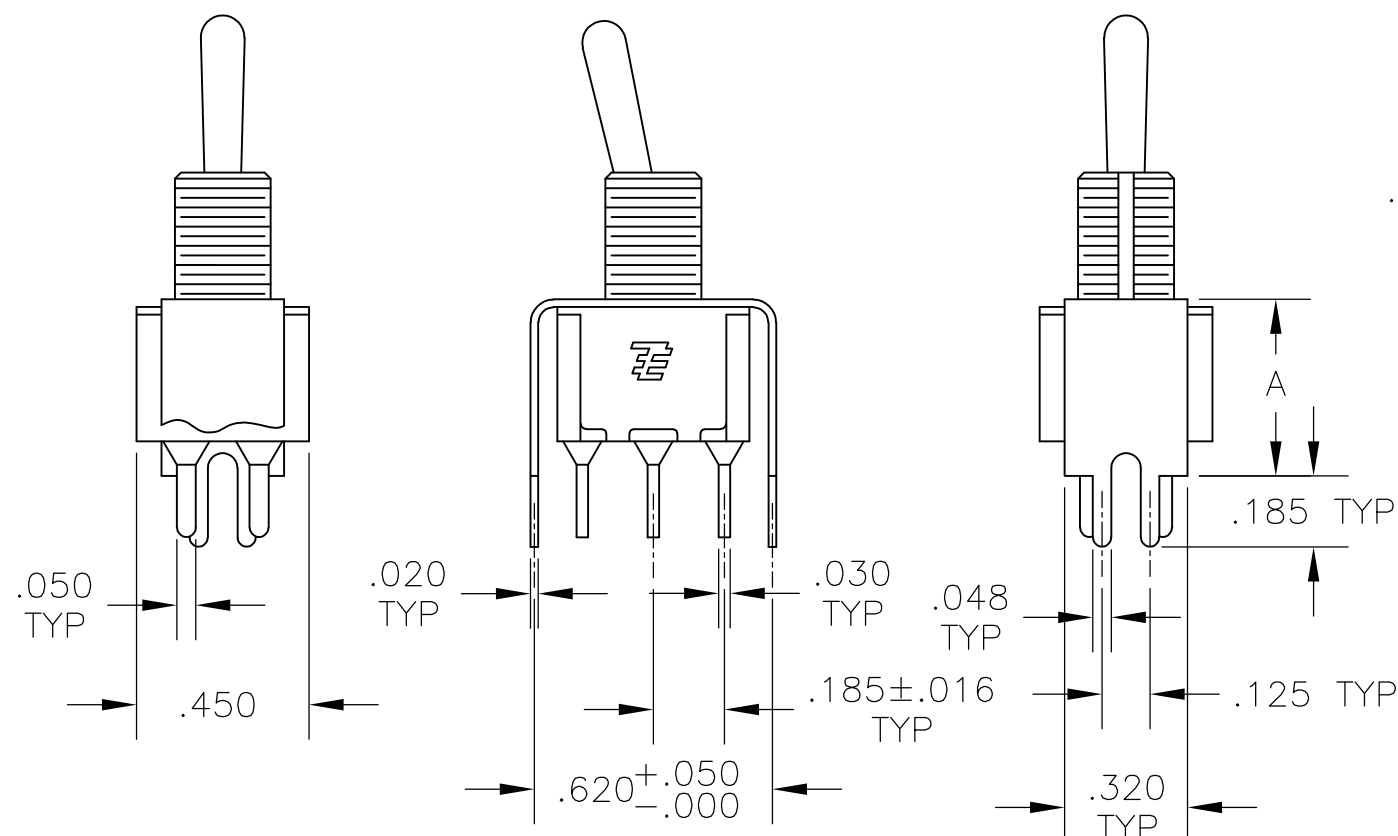


W W4 WIRE WRAP



C PRINTED CIRCUIT

B

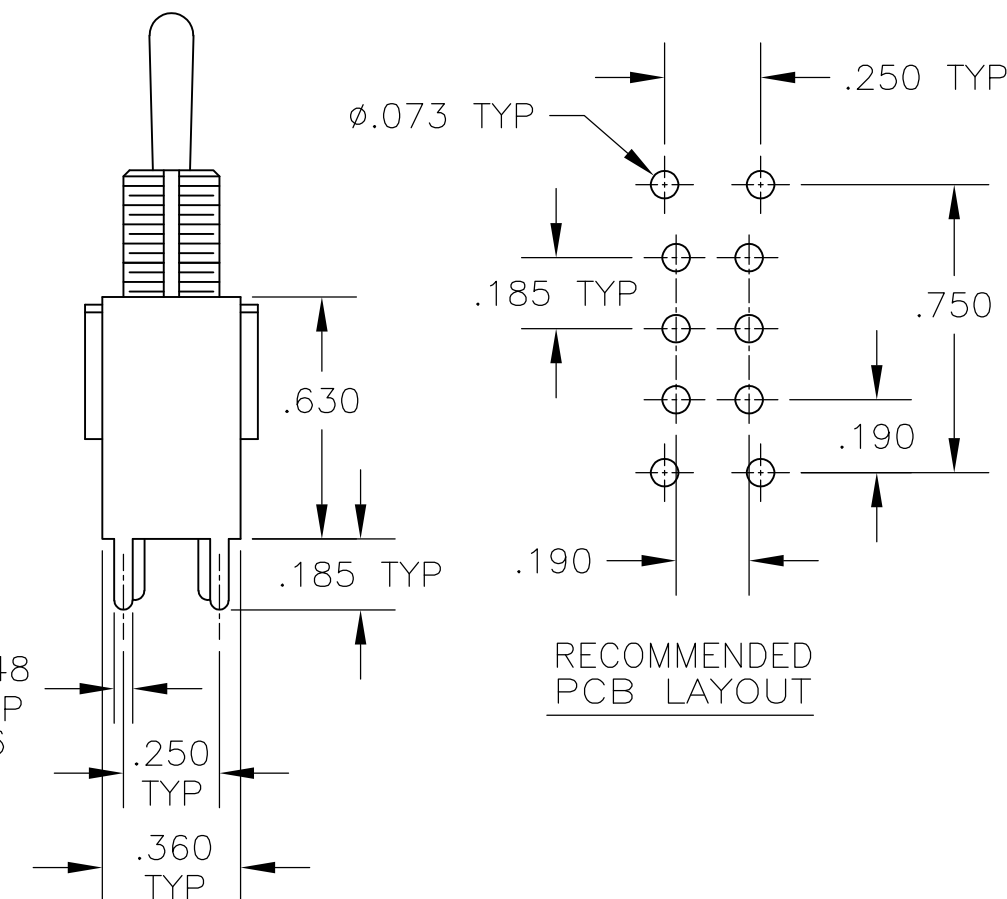
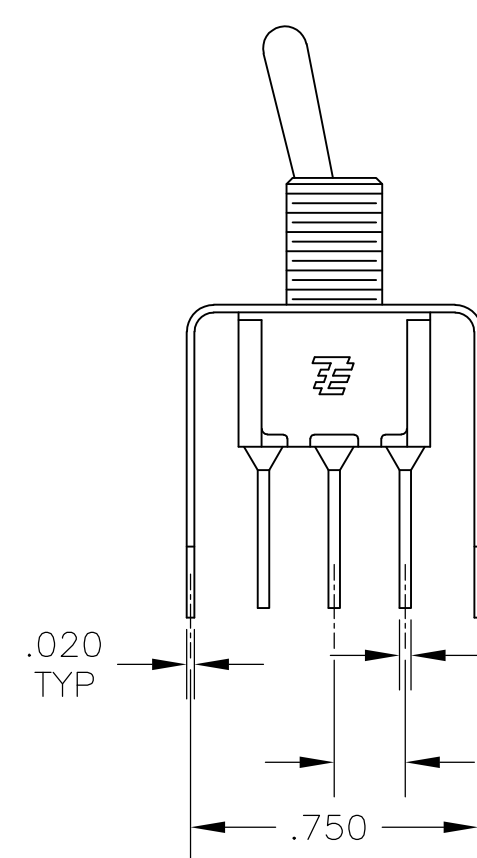
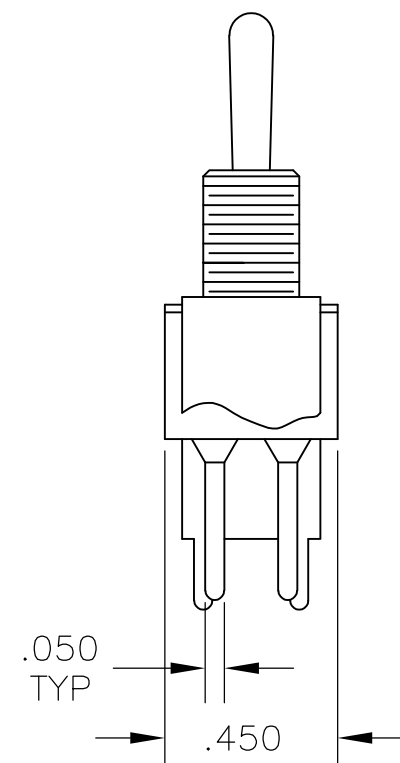


| OPTION | DIM A |
|--------|-------|
| V30    | .460  |
| V40    | .630  |

V30 V40 6  
VERTICAL SUPPORT BRACKET

V70

VERTICAL SUPPORT BRACKET

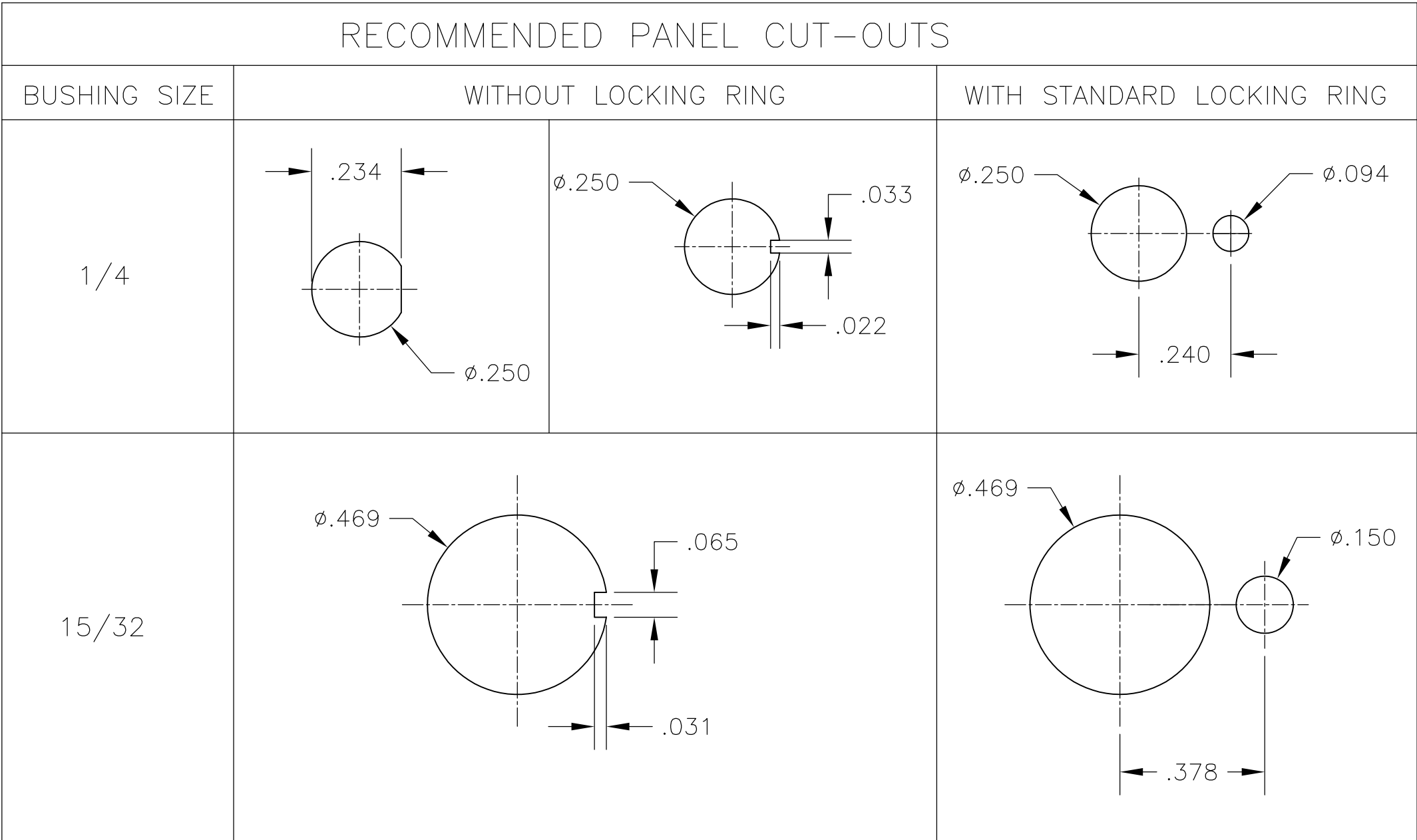


A

|                                        |  |  |                      |   |                                                                                                    |                 |
|----------------------------------------|--|--|----------------------|---|----------------------------------------------------------------------------------------------------|-----------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  |  | DWN M. ZITTO 14APR05 |   | TE Connectivity                                                                                    |                 |
| DIMENSIONS: INCHES                     |  |  | CHK M. ZITTO         | - |                                                                                                    |                 |
|                                        |  |  | APVD M. ZITTO        | - | NAME<br>GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15) |                 |
|                                        |  |  | PRODUCT SPEC         | - |                                                                                                    |                 |
| MATERIAL -                             |  |  | APPLICATION SPEC     | - | SIZE A2                                                                                            | CAGE CODE 00779 |
|                                        |  |  | WEIGHT -             | - | DRAWING NO C=1825139                                                                               | RESTRICTED TO - |
| FINISH -                               |  |  | CUSTOMER DRAWING     |   | SCALE 2:1                                                                                          | SHEET 3 of 4    |
|                                        |  |  |                      |   | REV A5                                                                                             |                 |

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

| Alco P/N      | P/N         |
|---------------|-------------|
| A203KZQ04     | 1825139-1   |
| A203MD9AB04   | 1825139-2   |
| A203P3AV2Q04  | 1825139-3   |
| A203P3ZQ04    | 1825139-4   |
| A203SD9AV2B04 | 1825139-5   |
| A203SD9AV2Q04 | 1825139-6   |
| A203SDZQ04    | 1825139-7   |
| A203SYCB04    | 1825139-8   |
| A203SYCQ04    | 1825139-9   |
| A203SYZQ04    | 1-1825139-0 |
| A203T1ZQ04    | 1-1825139-1 |
| A203TZQ04     | 1-1825139-2 |
| A205KZB04     | 1-1825139-3 |
| A205P3ZQ04    | 1-1825139-4 |
| A205SD9AB04   | 1-1825139-5 |
| A205SYCB04    | 1-1825139-6 |
| A205SYCQ04    | 1-1825139-7 |
| A205SYZQ04    | 1-1825139-8 |
| A205T1ZQ04    | 1-1825139-9 |
| A205TZQ04     | 2-1825139-0 |
| A207P3ZQ04    | 2-1825139-1 |
| A207SYCB04    | 2-1825139-2 |
| A207SYCQ04    | 2-1825139-3 |
| A207SYZQ04    | 2-1825139-4 |
| A207T1ZQ04    | 2-1825139-5 |
| A207TZQ04     | 2-1825139-6 |
| A211KZB04     | 2-1825139-7 |
| A211MD9AQ04   | 2-1825139-8 |
| A211MYCQ04    | 2-1825139-9 |
| A211P3CQ04    | 3-1825139-0 |
| A211P3V40G04  | 3-1825139-1 |
| A211P3ZQ04    | 3-1825139-2 |
| A211SCWCQO04  | 3-1825139-3 |
| A211SDZQ04    | 3-1825139-4 |
| A211SHZQ04    | 3-1825139-5 |
| A211SY9AQ04   | 3-1825139-6 |
| A211SYCQ04    | 3-1825139-7 |
| A211SYZB04    | 3-1825139-8 |
| A211SYZQ04    | 3-1825139-9 |
| A211T1ZQ04    | 4-1825139-0 |
| not assigned  | 4-1825139-1 |
| A213SYZQ04    | 4-1825139-2 |
| A215SD9V30B04 | 4-1825139-3 |
| A215SY9AQ04   | 4-1825139-4 |
| A215SYZQ04    | 4-1825139-5 |
| A203LYCQ04    | 4-1825139-6 |
| A203LD9CQ04   | 4-1825139-7 |
| A203LDCQ04    | 4-1825139-8 |



| MATERIALS CHART        |                           |                  |
|------------------------|---------------------------|------------------|
| COMPONENT NAME         | BASE MATERIAL             | FINISH           |
| CASE                   | DAP, RED, UL94 V-0        |                  |
| FRAME                  | STAINLESS STEEL           |                  |
| 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

MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .010

4 PLC ± -

ANGLES ± 2°

FINISH -

DWN  
M. ZITTO

CHK  
M. ZITTO

APVD  
M. ZITTO

PRODUCT SPEC

APPLICATION SPEC

WEIGHT -

CUSTOMER DRAWING

14APR05

-

-

-

-

-

SCALE 3:1

TE Connectivity

NAME  
GEMINI A SERIES TOGGLE SWITCH,DOUBLE POLE,  
3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C=1825139

RESTRICTED TO  
-

SHEET 4 of 4

REV A5