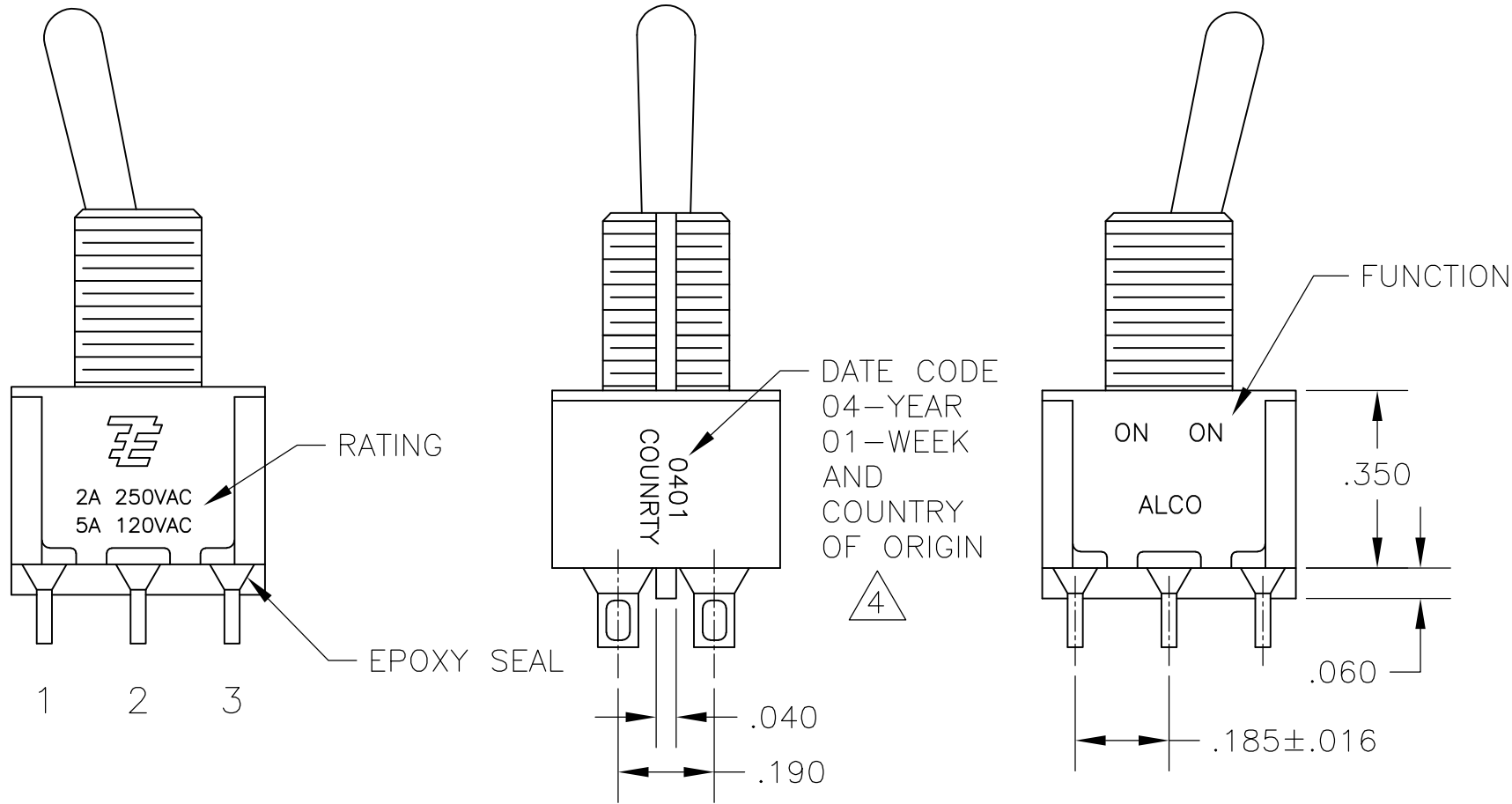
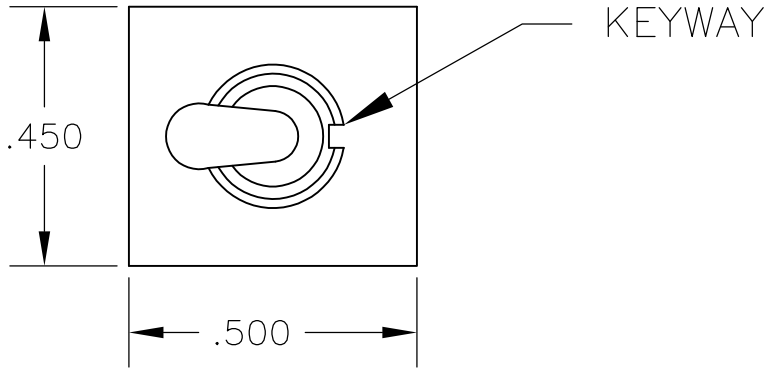


| LOC | DIST | REVISIONS |     |                           |           |     |      |
|-----|------|-----------|-----|---------------------------|-----------|-----|------|
|     |      | P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
| AD  | 00   |           | A5  | REVISED PER ECO-14-005988 | 23APR2014 | NK  | RH   |



- 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 FOLLWING 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                                                                                                         |          |      |          |
| 01                                                                                                               | ON       | NONE | ON       |
| 08                                                                                                               | ON       | NONE | (ON)     |
| TERMINALS CONNECTED                                                                                              | 2-3, 5-6 | ---  | 1-2, 4-5 |
| None: No mechanical position<br>Off: Mechanical position with no electrical connection<br>(On): Momentary action |          |      |          |

| 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<br>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 |
| EXAMPLE: 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       |         |      |

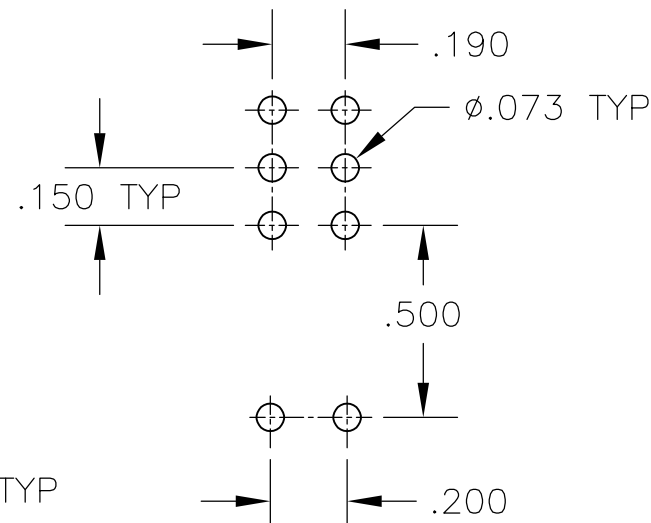
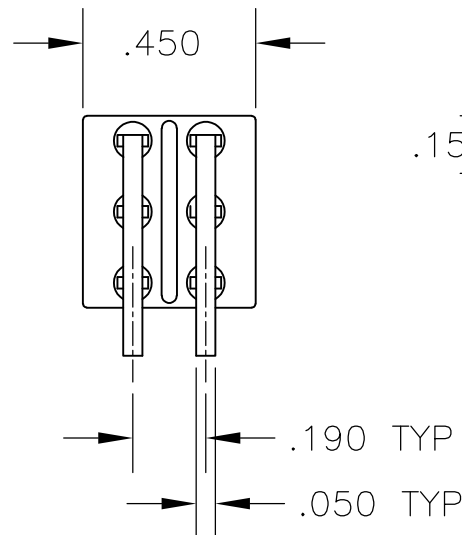
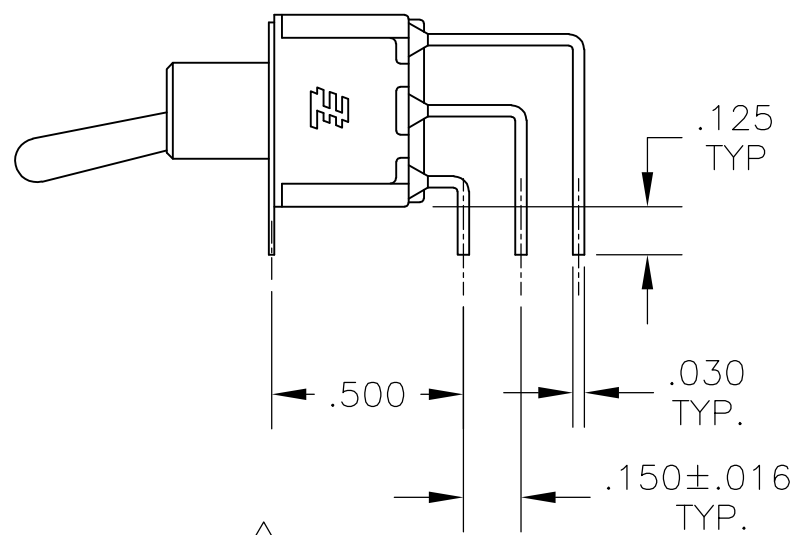
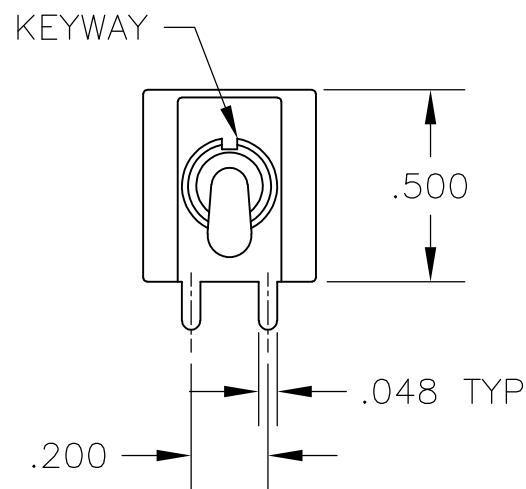
EXAMPLE: A201SYCQ04

|                                        |  |                  |         |                                                                                       |           |              |
|----------------------------------------|--|------------------|---------|---------------------------------------------------------------------------------------|-----------|--------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>M. ZITTO  | 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     | -       |                                                                                       |           |              |
| MATERIAL                               |  | APPLICATION SPEC | -       | SIZE                                                                                  | CAGE CODE | DRAWING NO   |
| FINISH                                 |  | WEIGHT           | -       | A2                                                                                    | 00779     | C=1825138    |
|                                        |  | CUSTOMER DRAWING |         | SCALE                                                                                 | 3:1       | SHEET 1 of 4 |
|                                        |  |                  |         |                                                                                       |           | REV A5       |



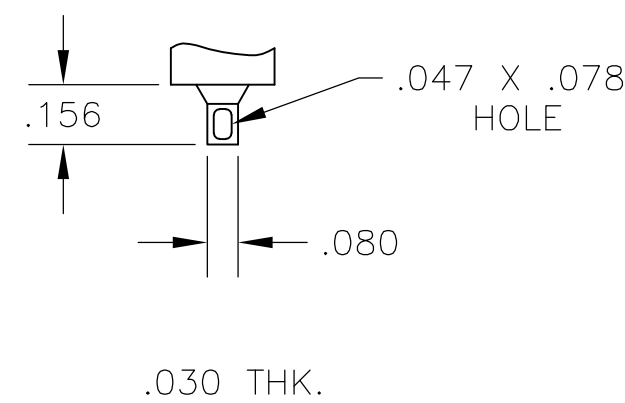
| LOC |  | DIST |  | REVISIONS |     |             |  |  |      |
|-----|--|------|--|-----------|-----|-------------|--|--|------|
| AD  |  | 00   |  | P         | LTR | DESCRIPTION |  |  | DATE |
|     |  |      |  |           |     | SEE SHEET 1 |  |  | DWN  |
|     |  |      |  |           |    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

D



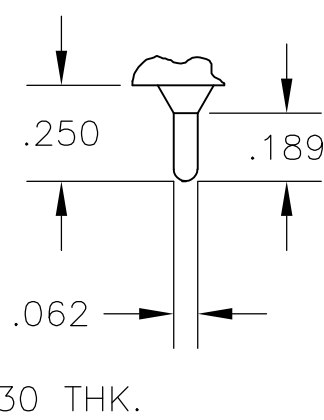
RECOMMENDED  
PCB LAYOUT

AV2 VERTICAL RIGHT ANGLE 5



.030 THK.

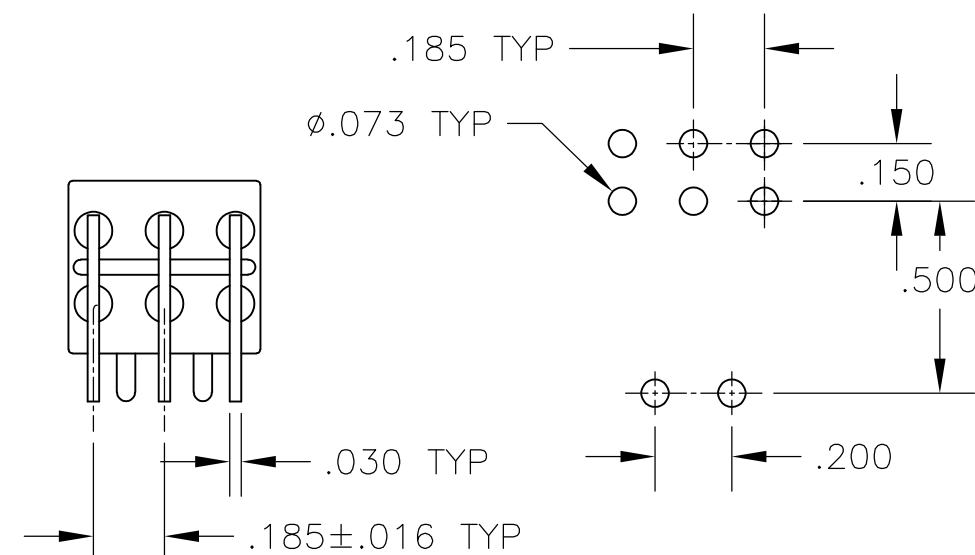
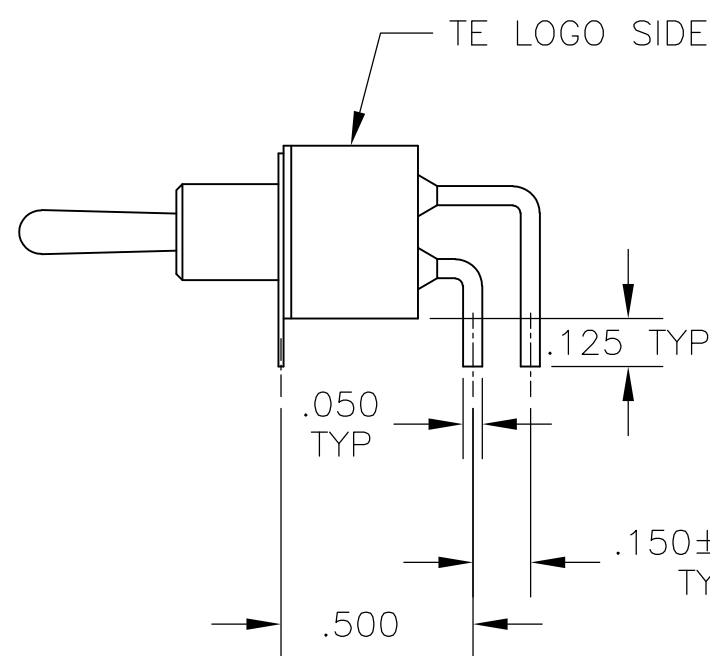
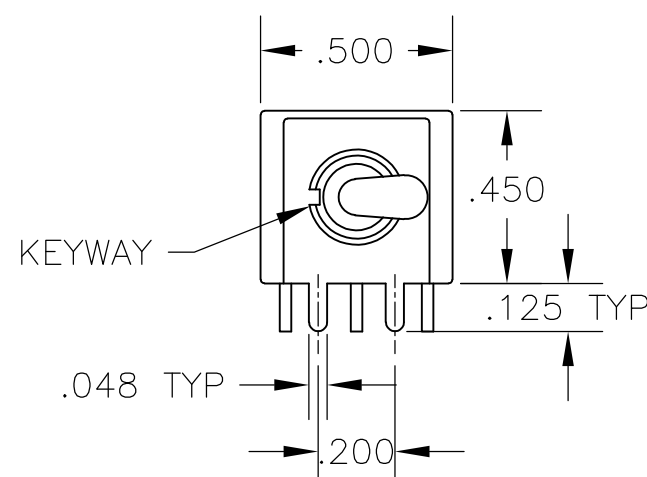
Z WIRE LUG



.030 THK.

Z3 QUICK CONNECT

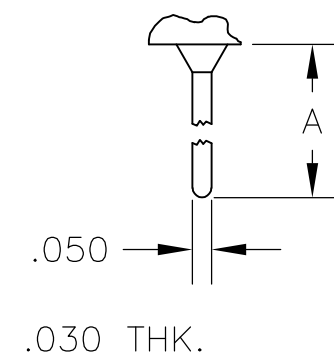
C



RECOMMENDED  
PCB LAYOUT

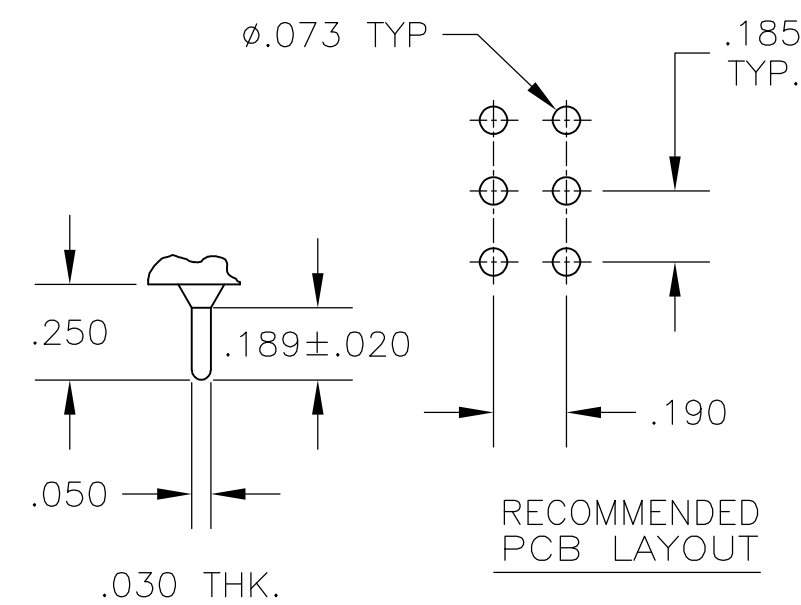
A RIGHT ANGLE 5

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



.030 THK.

W W4 WIRE WRAP

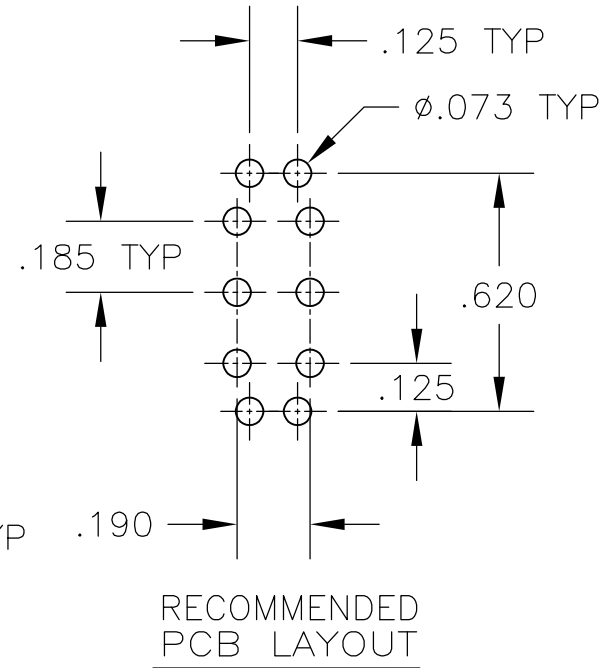
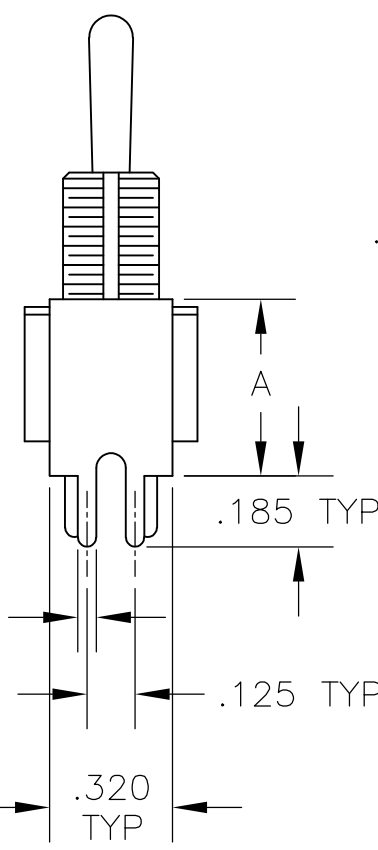
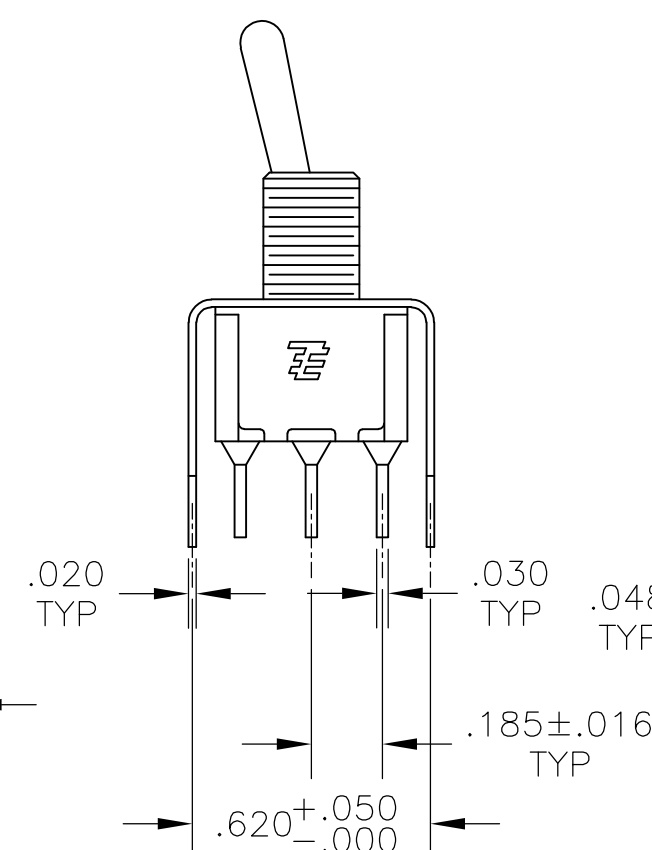
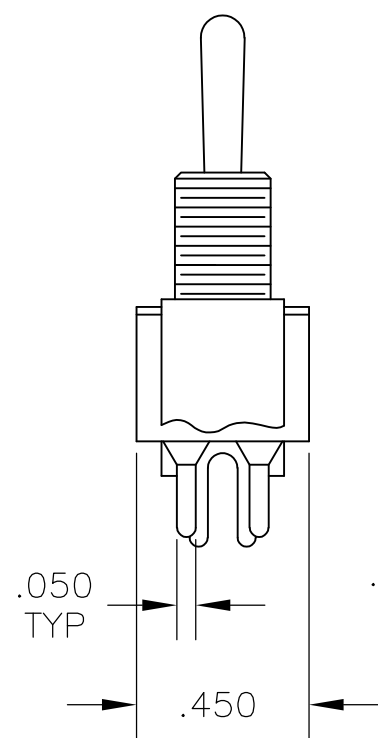


RECOMMENDED  
PCB LAYOUT

.030 THK.

C PRINTED CIRCUIT

B



RECOMMENDED  
PCB LAYOUT

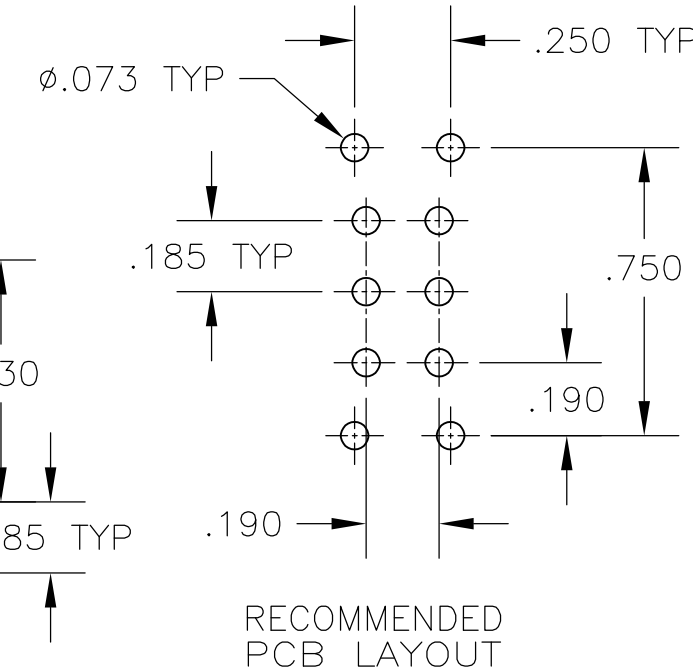
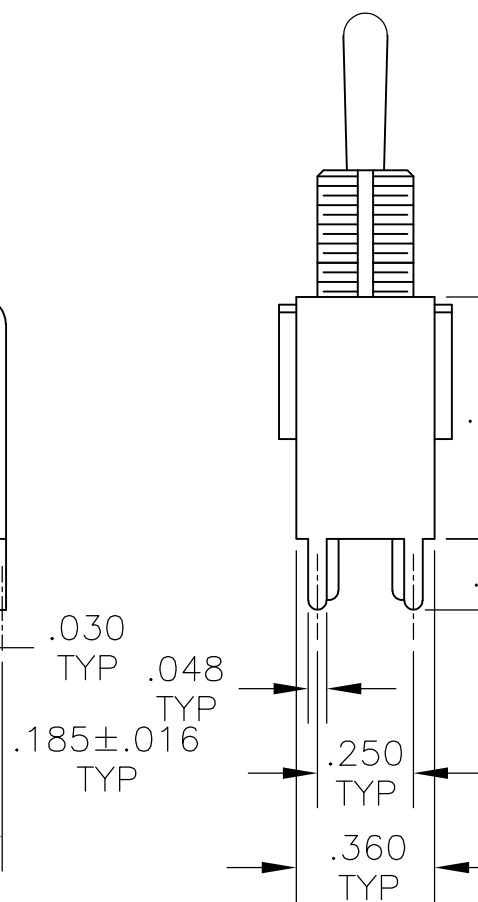
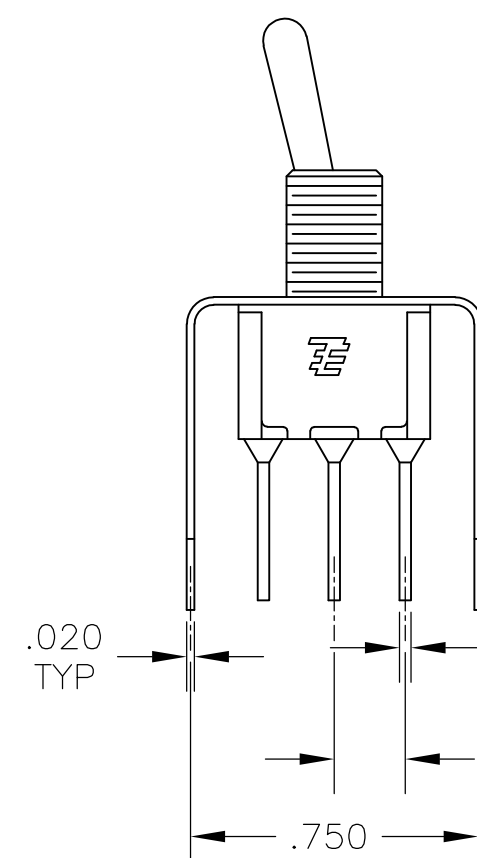
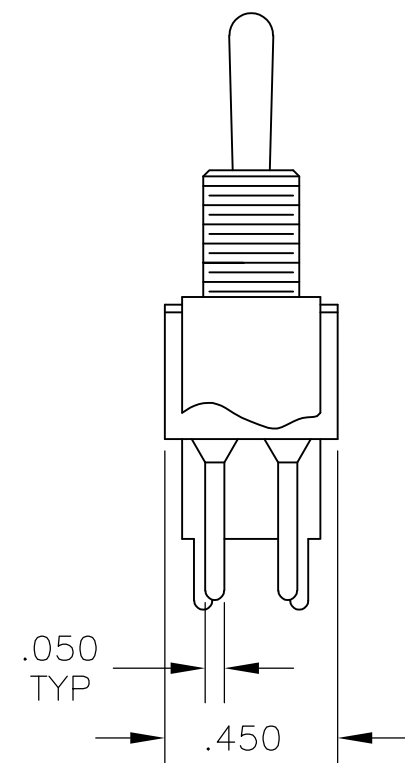
| OPTION | DIM A |
|--------|-------|
| V30    | .460  |
| V40    | .630  |

V30 V40 5

VERTICAL SUPPORT BRACKET

V70

VERTICAL SUPPORT BRACKET



RECOMMENDED  
PCB LAYOUT

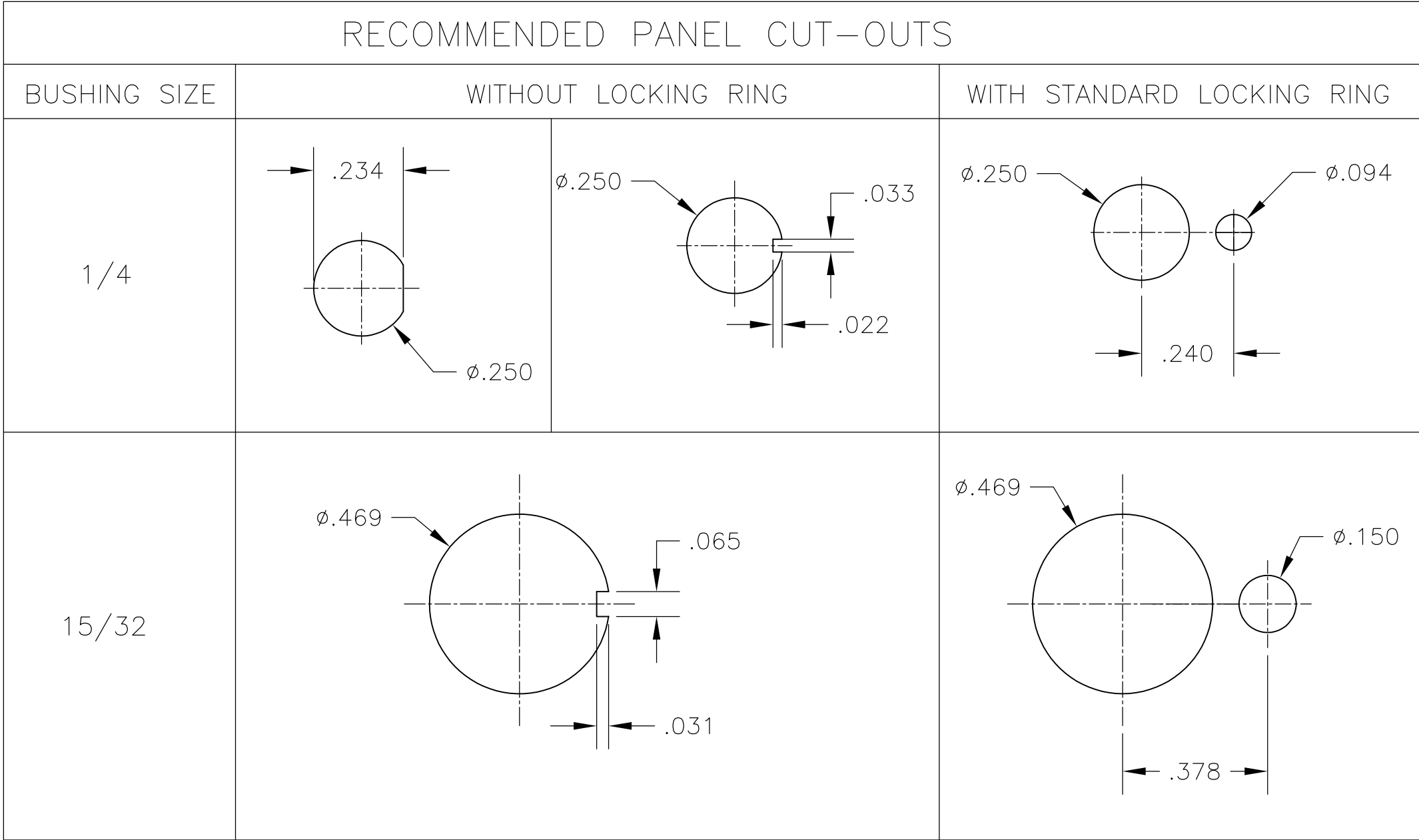
A

|                                        |  |  |  |              |  |  |  |
|----------------------------------------|--|--|--|--------------|--|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  |  |  | 14APR05      |  |  |  |
| DWN M. ZITTO                           |  |  |  | -            |  |  |  |
| CHK M.ZITTO                            |  |  |  | -            |  |  |  |
| APVD P.BROUILLETTE                     |  |  |  | -            |  |  |  |
| PRODUCT SPEC                           |  |  |  | -            |  |  |  |
| APPLICATION SPEC                       |  |  |  | -            |  |  |  |
| WEIGHT                                 |  |  |  | -            |  |  |  |
| CUSTOMER DRAWING                       |  |  |  | -            |  |  |  |
| SCALE 2:1                              |  |  |  | SHEET 3 of 4 |  |  |  |
| REV A5                                 |  |  |  | -            |  |  |  |



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

| Alco P/N       | P/N         |
|----------------|-------------|
| A201KAB04      | 1825138-1   |
| A201KD9AQ04    | 1825138-2   |
| A201KZQ04      | 1825138-3   |
| not assigned   | 1825138-4   |
| A201L1D9V30Q04 | 1825138-5   |
| A201MD9AB04    | 1825138-6   |
| A201MD9AQ04    | 1825138-7   |
| A201MD9AV2B04  | 1825138-8   |
| A201MD9AV2Q04  | 1825138-9   |
| A201MDAQ04     | 1-1825138-0 |
| not assigned   | 1-1825138-1 |
| 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 |
| A201SDZQ04     | 2-1825138-0 |
| A201SY9AB04    | 2-1825138-1 |
| 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 |
| A201TZQ04      | 3-1825138-1 |
| A208KZG04      | 3-1825138-2 |
| A208P3ZQ04     | 3-1825138-3 |
| A208SD9AQ04    | 3-1825138-4 |
| A208SD9AV2Q04  | 3-1825138-5 |
| A208SYCB04     | 3-1825138-6 |
| A208SYCQ04     | 3-1825138-7 |
| A208SYZQ04     | 3-1825138-8 |
| A208T1ZQ04     | 3-1825138-9 |
| A208TZQ04      | 4-1825138-0 |
| A208SDCQ04     | 4-1825138-1 |
| A201P3V30G04   | 4-1825138-2 |
| A203MD9AQ-UL   | 4-1825138-3 |
| A201MCWCB04    | 4-1825138-4 |
| A201SCWCB04    | 4-1825138-5 |



| 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

MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .010

4 PLC ± -

ANGLES ± -

FINISH -

DWN  
M. ZITTO

CHK  
M.ZITTO

APVD  
P.BROUILLETTE

PRODUCT SPEC  
-

APPLICATION SPEC  
-

WEIGHT  
-

CUSTOMER DRAWING

14APR05

TE Connectivity

NAME  
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  
A5

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