

| REVISIONS |     |                           |  |  |           |            |
|-----------|-----|---------------------------|--|--|-----------|------------|
| P         | LTR | DESCRIPTION               |  |  | DATE      | DWN   APVD |
| B2        |     | REVISED PER ECO-17-002273 |  |  | 10OCT2017 | RK   AS    |

CASE: PPS, UL94V-0, BROWN  
FRAME/BACKET: STEEL, TIN OVER NICKEL  
ACTUATOR BUTTON: PPS OR PA46 (SEE TABLE), UL94V-0, COLOR SEE TABLE  
MOVING CONTACT: COPPER ALLOY, SILVER PLATE  
FIXED CONTACT/TERMINALS: COPPER ALLOY, SILVER OVER NICKEL PLATE

ELECTRICAL:  
MAX CONTACT RATING: 50MILLIAMPS@24V DC  
MIN CONTACT RATING: 10MICROAMPS@1V DC  
INITIAL CONTACT RESISTANCE: 50 MILLIOHMS MAX  
INSULATION RESISTANCE: 100 MEGOHMS @ 100 VDC MIN.  
DIELECTRIC STRENGTH: 500 VAC 50/60 Hz FOR 1 MINUTE  
LIFE EXPECTANCY: 100,000 CYCLES

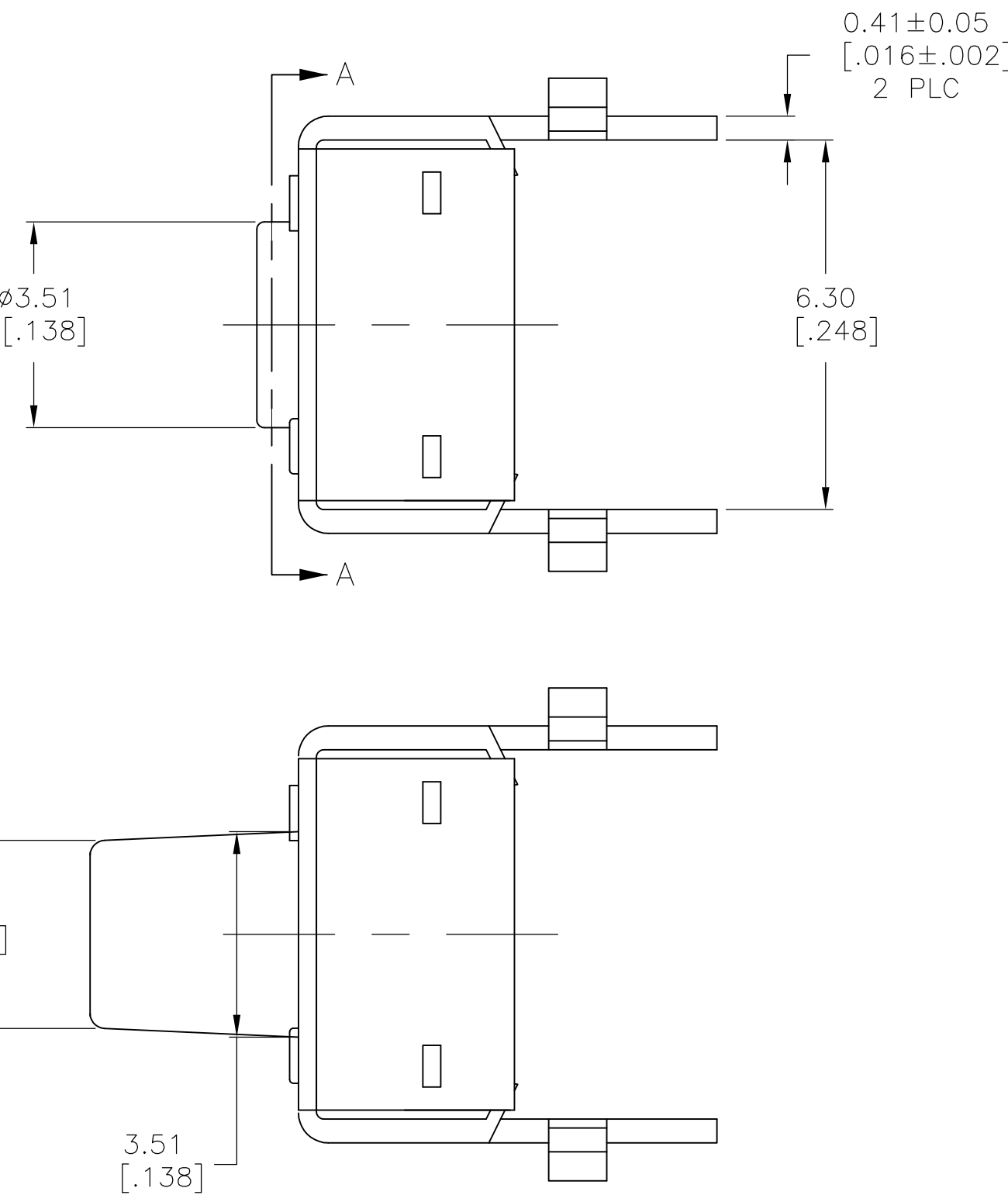
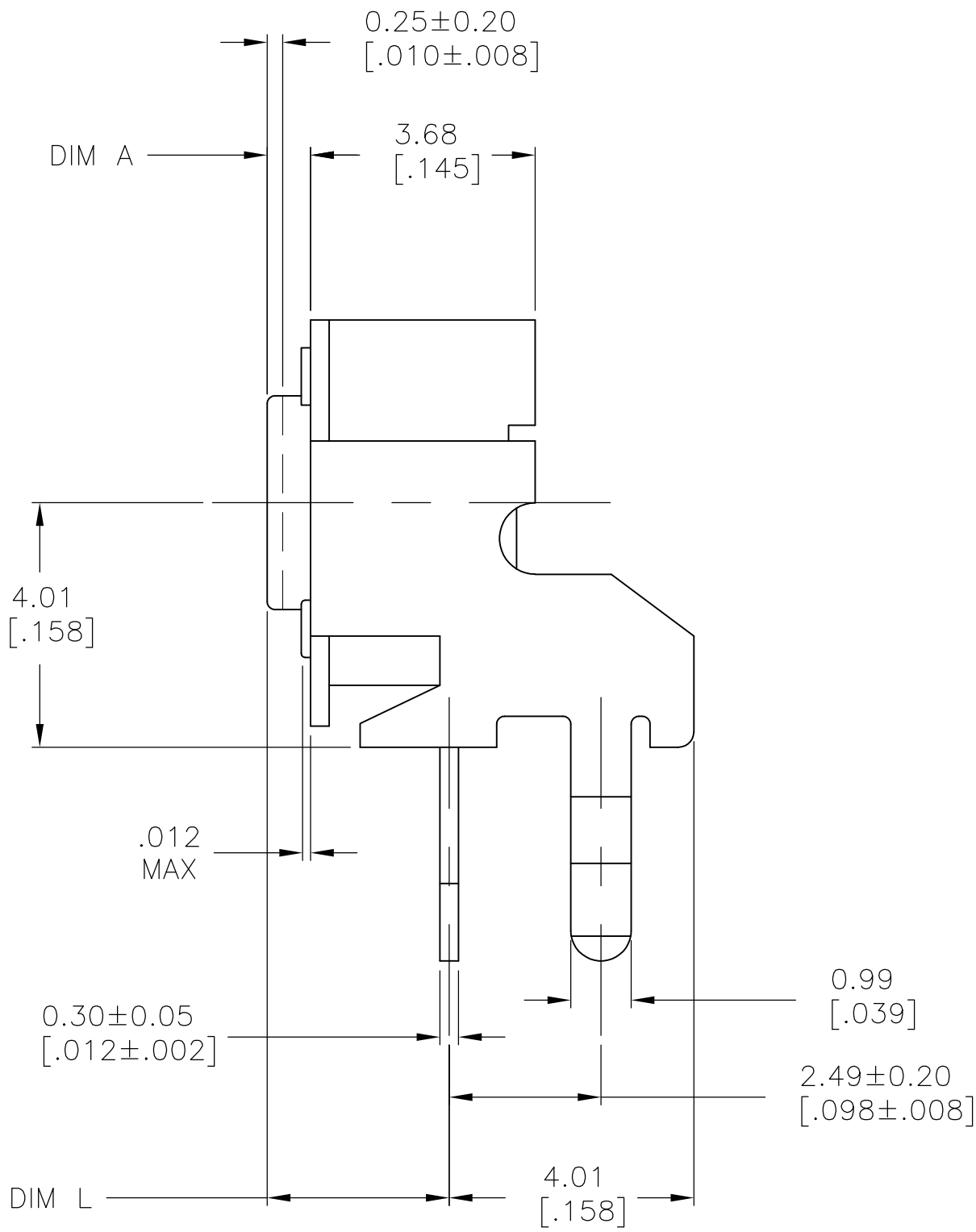
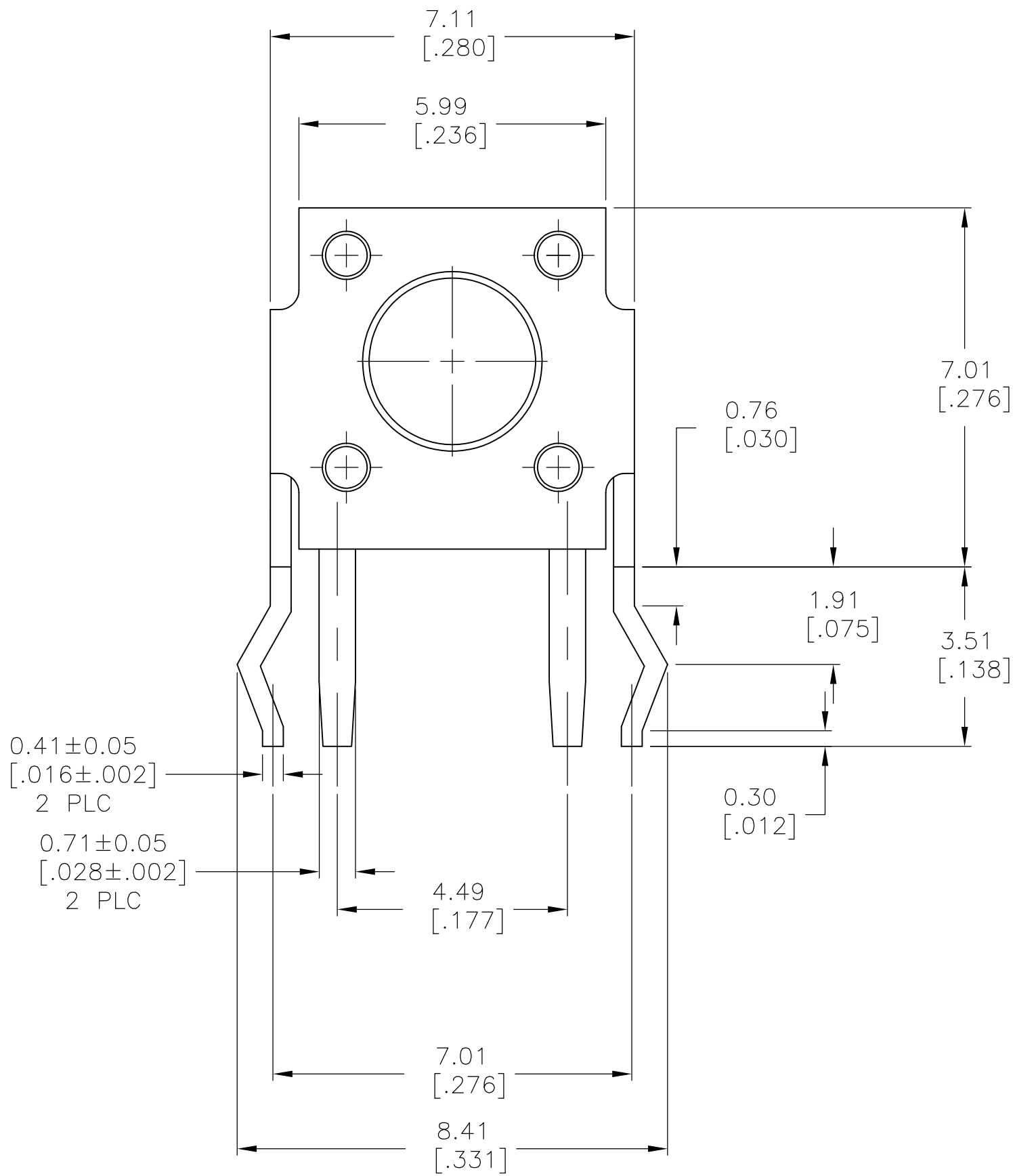
MECHANICAL:  
ACTUATION FORCE: SEE TABLE  
ACTUATION TRAVEL: .010±.008

ENVIRONMENTAL:  
OPERATING TEMPERATURE: -35°C TO +85°C  
STORAGE TEMPERATURE: -35°C TO +85°C  
SOLDER HEAT RESISTANCE PER 109-201 COND B  
SOLDERABILITY PER EIA-364-52 CLASS 1, CATEGORY 2

1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EH DIRECTIVE 2002/95/EC OF 27 JAN 2003 (ROHS)

|                |       |                |                 |              |              |            |             |
|----------------|-------|----------------|-----------------|--------------|--------------|------------|-------------|
| OBSOLETE       | *PA6T | WHITE          | 260 +/-50 GF    | 15.85 (.624) | 13.25 (.522) | FSMRA8JHXA | 2-1977177-4 |
|                | PPS   | BLACK          | 160 +/-50 GF    | 15.85 (.624) | 13.25 (.522) | FSMRA8JHX  | 2-1977177-3 |
|                | PPS   | BROWN          | 100 +/-30 GF    | 15.85 (.624) | 13.25 (.522) | FSMRA8JHXL | 2-1977177-2 |
|                | PA6T  | WHITE          | 260 +/-50 GF    | 11.85 (.467) | 9.24 (.364)  | FSMRA7JHXA | 2-1977177-1 |
|                | PPS   | BLACK          | 160 +/-50 GF    | 11.85 (.467) | 9.24 (.364)  | FSMRA7JHX  | 2-1977177-0 |
| OBSOLETE       | PPS   | BROWN          | 100 +/-30 GF    | 11.85 (.467) | 9.24 (.364)  | FSMRA7JHXL | 1-1977177-9 |
|                | PA6T  | WHITE          | 260 +/-50 GF    | 6.85 (.270)  | 4.24 (.167)  | FSMRA6JHXA | 1-1977177-8 |
|                | PPS   | BLACK          | 160 +/-50 GF    | 6.85 (.270)  | 4.24 (.167)  | FSMRA6JHX  | 1-1977177-7 |
|                | PPS   | BROWN          | 100 +/-30 GF    | 6.85 (.270)  | 4.24 (.167)  | FSMRA6JHXL | 1-1977177-6 |
|                | PA6T  | WHITE          | 260 +/-50 GF    | 6.15 (.242)  | 3.55 (.140)  | FSMRA5JHXA | 1-1977177-5 |
| OBSOLETE       | PPS   | BLACK          | 160 +/-50 GF    | 6.15 (.242)  | 3.55 (.140)  | FSMRA5JHX  | 1-1977177-4 |
| OBSOLETE       | PPS   | BROWN          | 100 +/-30 GF    | 6.15 (.242)  | 3.55 (.140)  | FSMRA5JHXL | 1-1977177-3 |
|                | PA6T  | WHITE          | 260 +/-50 GF    | 8.35 (.329)  | 5.74 (.226)  | FSMRA4JHXA | 1-1977177-2 |
|                | PPS   | BLACK          | 160 +/-50 GF    | 8.35 (.329)  | 5.74 (.226)  | FSMRA4JHX  | 1-1977177-1 |
|                | PPS   | BROWN          | 100 +/-30 GF    | 8.35 (.329)  | 5.74 (.226)  | FSMRA4JHXL | 1-1977177-0 |
|                | PA6T  | WHITE          | 260 +/-50 GF    | 5.85 (.230)  | 3.25 (.128)  | FSMRA3JHXA | 1977177-9   |
| OBSOLETE       | PPS   | BLACK          | 160 +/-50 GF    | 5.85 (.230)  | 3.25 (.128)  | FSMRA3JHX  | 1977177-8   |
|                | PPS   | BROWN          | 100 +/-30 GF    | 5.85 (.230)  | 3.25 (.128)  | FSMRA3JHXL | 1977177-7   |
|                | PA6T  | WHITE          | 260 +/-50 GF    | 3.86 (.152)  | 1.24 (.049)  | FSMRA2JHXA | 1977177-6   |
|                | PPS   | BLACK          | 160 +/-50 GF    | 3.86 (.152)  | 1.24 (.049)  | FSMRA2JHX  | 1977177-5   |
|                | PPS   | BROWN          | 100 +/-30 GF    | 3.86 (.152)  | 1.24 (.049)  | FSMRA2JHXL | 1977177-4   |
| OBSOLETE       | PA6T  | WHITE          | 260 +/-50 GF    | 3.15 (.124)  | 0.56 (.022)  | FSMRA1JHXA | 1977177-3   |
|                | PPS   | BLACK          | 160 +/-50 GF    | 3.15 (.124)  | 0.56 (.022)  | FSMRA1JHX  | 1977177-2   |
|                | PPS   | BROWN          | 100 +/-30 GF    | 3.15 (.124)  | 0.56 (.022)  | FSMRA1JHXL | 1977177-1   |
|                | PPS   | BROWN          | 100 +/-30 GF    | 3.15 (.124)  | 0.56 (.022)  | FSMRA1JHXL | 1977177-1   |
| ACTUATOR MAT'L |       | ACTUATOR COLOR | ACTUATION FORCE | DIM L        | DIM A        | ALCO PIN   | TE PIN      |

|                                                                                      |  |                              |                                                      |               |
|--------------------------------------------------------------------------------------|--|------------------------------|------------------------------------------------------|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                               |  | DWN<br>M. BINNER<br>14AUG07  | TE Connectivity                                      |               |
| DIMENSIONS:<br>mm [INCHES]                                                           |  | CHK<br>M. SARVER<br>14AUG07  |                                                      |               |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:                                               |  | APVD<br>M. SARVER<br>14AUG07 | NAME                                                 |               |
| 0 PLC ± -<br>1 PLC ± -<br>2 PLC ± 0.30[.012]<br>3 PLC ± -<br>4 PLC ± -<br>ANGLES ± - |  | PRODUCT SPEC                 | 6MM R/A TACT SWITCH<br>ULTRA HIGH TEMPERATURE SERIES |               |
| MATERIAL                                                                             |  | FINISH                       | SIZE                                                 | CAGE CODE     |
| 1                                                                                    |  | -                            | A1                                                   | 00779         |
| CUSTOMER DRAWING                                                                     |  | SCALE                        | DRAWING NO                                           | RESTRICTED TO |
|                                                                                      |  | 10:1                         | 1977177                                              | -             |
|                                                                                      |  | SHEET                        | 1                                                    | REV           |
|                                                                                      |  | 1                            | 1                                                    | B2            |



FSMRA5J

RECOMMENDED HOLE LAYOUT  
TOLERANCE ±.002 UNLESS  
OTHERWISE NOTED

| CIRCUIT CHARACTERISTICS |                 |       |
|-------------------------|-----------------|-------|
| CONTACT POSITION        | CIRCUIT DIAGRAM |       |
| OFF                     | (ON)<br>1-2     | 1 — 2 |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1-1977177-9](#)