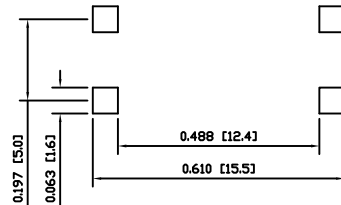
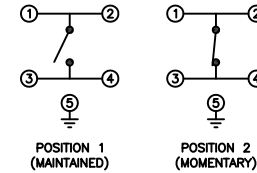


SUGGESTED PCB LAYOUT



SCHEMATIC



SPECIFICATIONS

FUNCTION:  
1P1T OFF-(ON)

RATINGS:  
50mA 12VDC

OPERATING FORCE:  
160±50gf

TRAVEL:  
0.014±0.004 [0.35±0.1]

CONTACT RESISTANCE:  
Initial: 100mΩ Max. at 5mA 5VDC

INSULATION RESISTANCE:  
100MΩ Min. at 500VDC

DIELECTRIC STRENGTH:  
250VAC For 1 Minute

ELECTRICAL LIFE:  
200,000 Cycles

SHOCK RESISTANCE:  
Mil-Std. 202, Method 213B

VIBRATION RESISTANCE:  
Mil-Std. 202F, Method 201A

TEMPERATURE:  
Operating: -25°C to 70°C  
Storage: -30°C to 80°C

APPROVALS:

**RoHS LEAD FREE**  
COMPLIANT PROCESS COMPATIBLE

PACKAGING

PACKAGING TYPE:  
Tape and Reel

REEL QUANTITY:  
400 Pieces

MATERIALS

BASE:  
Polyamide (FR52), UL94 V-0

COVER:  
Stainless Steel

ACTUATOR:  
Polyamide (FR52), UL94 V-0

CONTACTS:  
Silver Clad Phosphor Bronze

TERMINALS:  
Silver Plated Brass

|                |      |          |     |
|----------------|------|----------|-----|
| ACTUATOR       | A    | 09/08/27 | CAB |
| BODY           | A    | 09/08/27 | CAB |
| MATERIALS      | A    | 09/08/27 | CAB |
| PACKAGING      | A    | 09/08/27 | CAB |
| SPECIFICATIONS | A    | 09/08/27 | CAB |
| REFERENCE      | REV. | DATE     | BY  |

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|      |                 |          |          |          |
|------|-----------------|----------|----------|----------|
| A    | INITIAL RELEASE | PCRD0092 | 09/08/27 | CAB      |
| REV. | DESCRIPTION     | PCR      | DATE     | DRAWN BY |

|                    |                      |
|--------------------|----------------------|
| DIMENSIONS         | INCHES [MILLIMETERS] |
| GENERAL TOLERANCES | ±0.008 [±0.2] / ±1°  |
| SCALE              | DRAWING NOT TO SCALE |
| PROJECTION         |                      |

|                                                                                                 |  |                                                                                                                 |          |
|-------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|----------|
|  E-SWITCH® |  |  <b>LAMB</b><br>INDUSTRIES |          |
| TS12M-8.5-160-TR                                                                                |  |                                                                                                                 |          |
| DRAWING NUMBER                                                                                  |  | DATE                                                                                                            | REVISION |
| 06-TS12M85160TR                                                                                 |  | AUGUST 27, 2009                                                                                                 | A        |