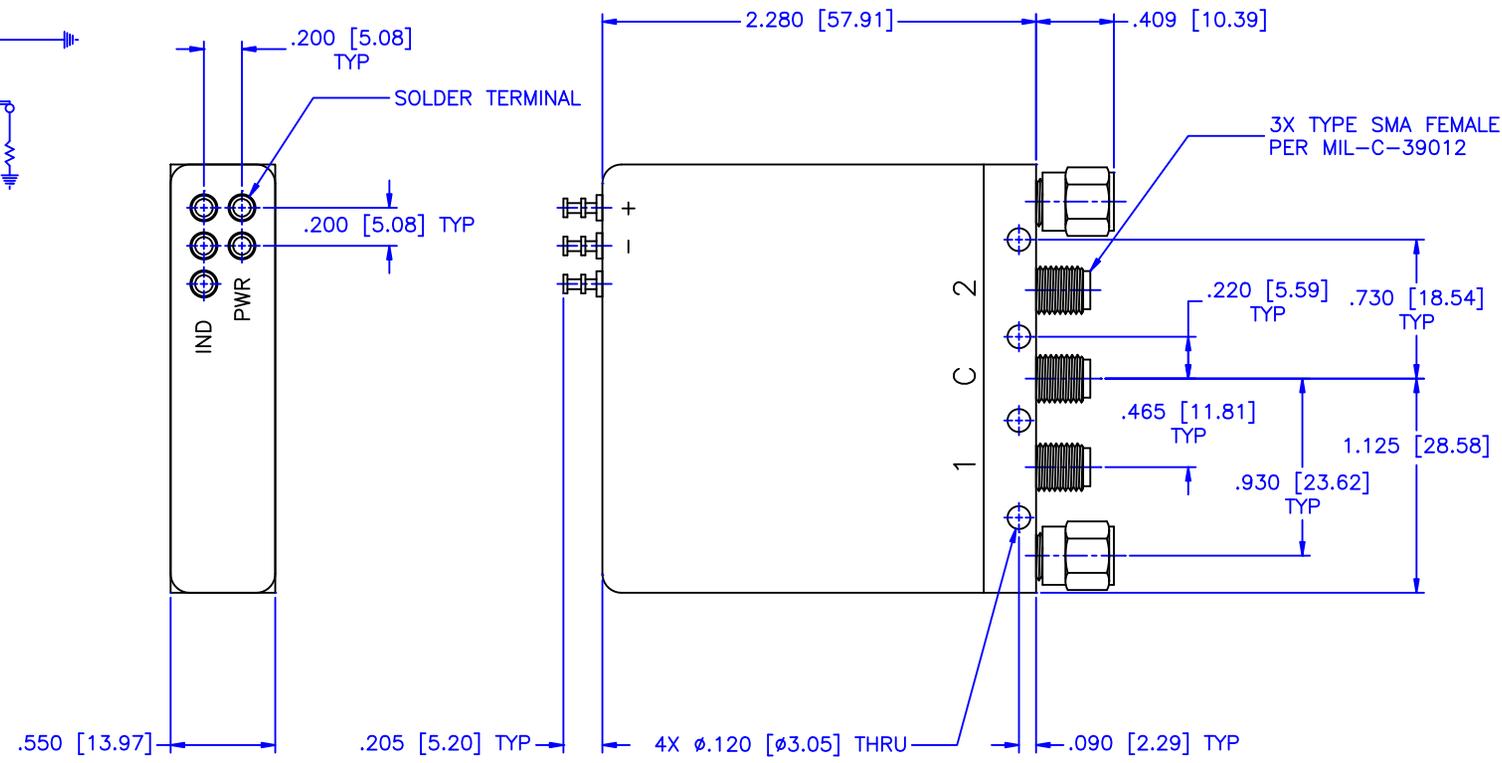


| REVISIONS |     |             |      |          |
|-----------|-----|-------------|------|----------|
| ZONE      | REV | DESCRIPTION | Date | APPROVED |
|           |     |             |      |          |



**SPECIFICATION:**

| FREQUENCY RANGE (GHz): | DC-2.0 | 2.0-4.0 | 4.0-8.0 | 8.0-12.4 | 12.4-18.0 | 12.4-18.0 |
|------------------------|--------|---------|---------|----------|-----------|-----------|
| VSWR (Max.):           | 1.20:1 | 1.25:1  | 1.30:1  | 1.40:1   | 1.50:1    | 1.60:1    |
| INSERTION LOSS (dB):   | 0.20   | 0.25    | 0.30    | 0.40     | 0.50      | 0.70      |
| ISOLATION (dB):        | 90     | 80      | 80      | 70       | 60        | 50        |

**MECHANICAL**

CONTACT: BREAK BEFORE MAKE  
 ACTUATOR: FAILSAFE  
 SWITCHING SPEED: 20 mSEC MAX

**ELECTRICAL**

ACTUATOR VOLTAGE: 24.0±3.0 Vdc  
 ACTUATOR CURRENT: 0.110 A MAX @ 24.0 Vdc  
 POWER HANDLING: 200W CW @ 1.0 GHz  
 IMPEDANCE: 50 Ohms

**ENVIRONMENTAL**

OPERATING TEMP: -54° C TO +90° C  
 SINE VIBRATION: 30 G'S rms  
 LIFE: 1,000,000 CYCLES  
 RANDOM VIBRATION: 20 G'S rms

|                              |                     |
|------------------------------|---------------------|
| MATERIAL:                    |                     |
| DRAWN:<br>Paiboon Luekhamhan | DATE:<br>02-23-2009 |
| APPROVED:<br>T. Nguyen       | DATE:<br>02-23-2009 |

|   |  |  |                         |
|---|--|--|-------------------------|
|   | MICROWAVE COMMUNICATIONS LABORATORIES INC.<br>7255 30TH AVE. N. SAINT PETERSBURG, FL 33710<br>TEL: (727) 344-6254 FAX: (727) 381-6116<br>http://WWW.MCLI.COM |  | SCALE:<br>N/A           |
|   | UNLESS OTHERWISE SPECIFIED:<br>TOLERANCES<br>IN (INCHES) OR [mm] (MILLIMETERS)<br>FRACTIONS: ± 1/64<br>DECIMALS: ±.01 ±.005<br>ANGLE: ±1/2°                  |  | SHEET:<br>N/A           |
| DRAWING TITLE:<br>ELECTROMECHANICAL SWITCHES  |  |  | PART NO.<br>K45-8-FI/24 |
| PROPRIETARY NOTICE:<br>THE INFORMATION IN THIS DRAWING IS PROPRIETARY<br>AND SHALL NOT BE USED OR DISCLOSED WITHOUT WRITTEN<br>PERMISSION FROM MICROWAVE COMMUNICATIONS<br>LABORATORIES INC. (MCLI) |  | CAGE CODE:<br>OD2L5                          |                         |
| THIRD ANGLE PROJECTION  |  | SIZE:<br>A                                   | REV:<br>N/A             |
|   |  | DO NOT SCALE THE DRAWING<br>DWG NO.<br>84178 |                         |