

| REVISIONS |     |             |      |          |
|-----------|-----|-------------|------|----------|
| ZONE      | REV | DESCRIPTION | DATE | APPROVED |

**SPECIFICATIONS**

FREQUENCY RANGE (GHz): DC-2 2-4 4-8 8-12.4 12.4-18

VSWR (Max.): 1.20:1 1.25:1 1.30:1 1.40:1 1.50:1

INSERTION LOSS (dB): 0.20 0.25 0.30 0.40 0.50

ISOLATION (dB): 90 80 80 70 60

**MECHANICAL**

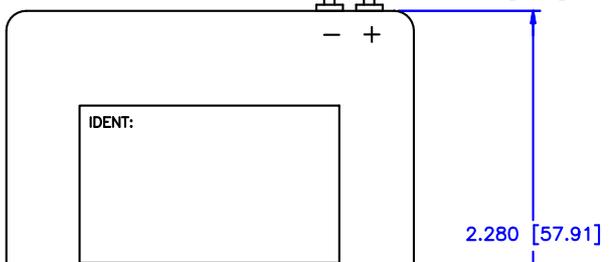
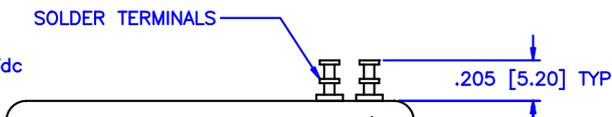
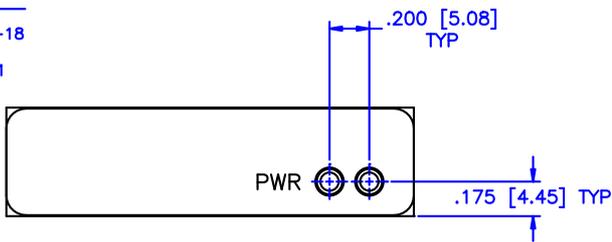
CONTACT: BREAK BEFORE MAKE  
 ACTUATOR: FAILSAFE  
 SWITCHING SPEED: 20 mSEC MAX

**ELECTRICAL**

ACTUATOR VOLTAGE: 12.0 Vdc  
 ACTUATOR CURRENT: 0.110 A MAX @ 12.0 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



(4)  $\phi$ .120 [ $\phi$ 3.05] THRU

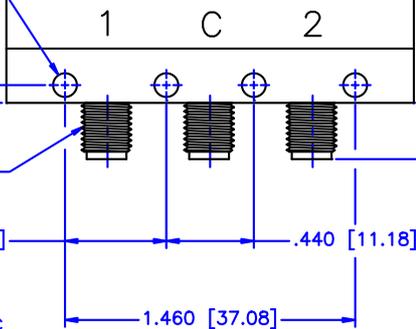
.090 [2.29] TYP

(3) SMA FEMALE PER MIL-C-39012

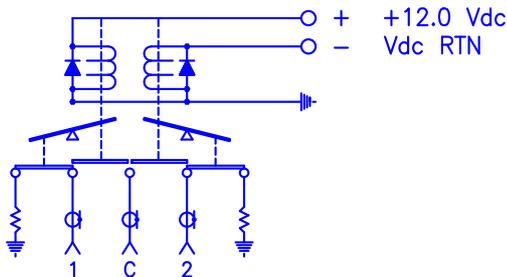
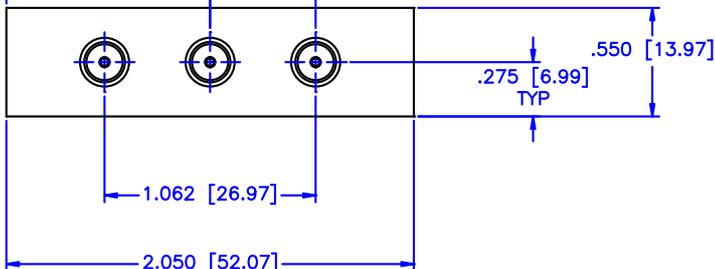
.510 [12.95]

.440 [11.18]

.285 [7.24] TYP



1.025 [26.04] .531 [13.49]



|                              |                     |
|------------------------------|---------------------|
| MATERIAL:                    |                     |
| DRAWN:<br>Paiboon Luekhamhan | DATE:<br>02-20-2009 |
| APPROVED:<br>T. Nguyen       | DATE:<br>02-20-2009 |

|   |  |   |
|---|--|---|
| <b>MCLI</b><br>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:                                       | N/A   |
|   | SHEET:                                       | N/A   |
| UNLESS OTHERWISE SPECIFIED:<br>TOLERANCES<br>IN (INCHES) OR [mm] (MILLIMETERS)<br>FRACTIONS: $\pm 1/64$<br>DECIMALS: $\pm 0.01 \pm 0.005$<br>ANGLE: $\pm 1/2^\circ$                                 | DRAWING TITLE:<br>ELECTROMECHANICAL SWITCHES |   |
| 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) | PART NO.:<br>K4-7-FS/12                      |   |
| THIRD ANGLE PROJECTION<br>  | CAGE CODE:<br>OD2L5                          | SIZE: A REV: N/A DWG NO.: 84176<br>DO NOT SCALE THE DRAWING |