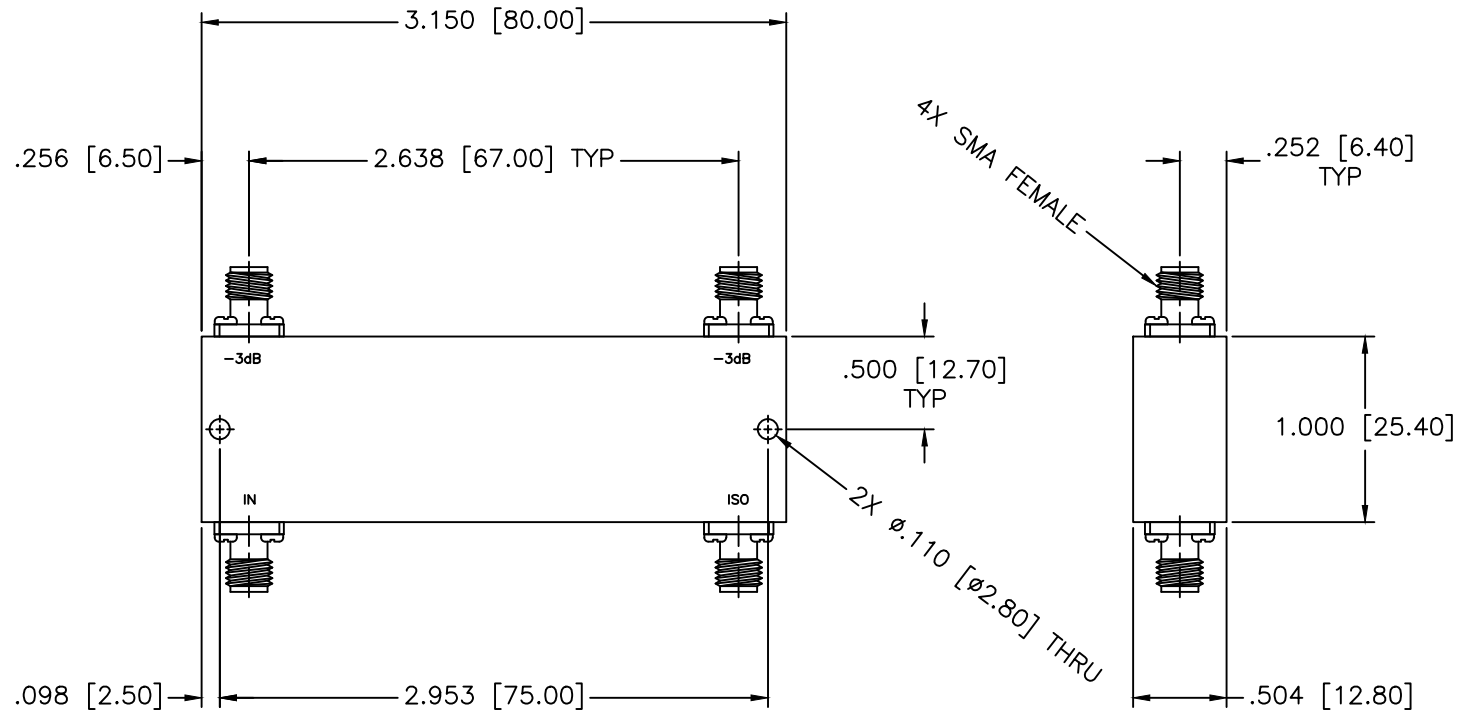


| REVISIONS |     |             |      |          |
|-----------|-----|-------------|------|----------|
| ZONE      | REV | DESCRIPTION | DATE | APPROVED |



#### SPECIFICATIONS

Frequency Range: 1–4 GHz  
 Isolation: 15dB Min.  
 VSWR: 1.40:1 Max.  
 Insertion Loss: 0.8dB Max.  
 Amplitude Balance:  $\pm 1.5$ dB Max.  
 Phase Balance:  $\pm 3^\circ$  Max.  
 Power: 50 Watts Max.  
 Operating Temperature Range:  $-55^\circ\text{C}$  to  $+85^\circ\text{C}$

|                                                                                                           |  |                                                                                                                                                                                                       |  |                         |
|-----------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|
| <b>MATERIAL:</b><br> |  | <b>MICROWAVE COMMUNICATIONS LABORATORIES INC.</b><br>7255 30TH AVE. N. SAINT PETERSBURG, FL 33710<br>TEL: (727) 344-6254 FAX: (727) 381-6116<br><a href="http://WWW.MCLI.COM">http://WWW.MCLI.COM</a> |  | <b>SCALE:</b><br>N/A    |
|                                                                                                           |  | <b>UNLESS OTHERWISE SPECIFIED:</b><br>TOLERANCES<br>IN (INCHES) OR [mm] (MILLIMETERS)<br>FRACTIONS: $\pm 1/64$<br>DECIMALS: $\pm 0.01 \pm 0.005$<br>ANGLE: $\pm 1/2^\circ$                            |  | <b>SHEET:</b><br>N/A    |
| <b>DRAWN:</b><br>Paiboon Luekhamhan<br><b>DATE:</b><br>02-16-2010                                         |  | <b>DRAWING TITLE:</b><br>90° HYBRID COUPLER                                                                                                                                                           |  |                         |
|                                                                                                           |  | <b>PART NO.</b><br>HB-24                                                                                                                                                                              |  |                         |
| <b>APPROVED:</b><br>T. Nguyen<br><b>DATE:</b><br>02-16-2010                                               |  | <b>CAGE CODE:</b><br>OD2L5                                                                                                                                                                            |  | <b>SIZE:</b><br>A       |
|                                                                                                           |  | <b>REV:</b><br>A                                                                                                                                                                                      |  | <b>DWG NO.</b><br>84710 |
|                                                                                                           |  | DO NOT SCALE THE DRAWING                                                                                                                                                                              |  |                         |