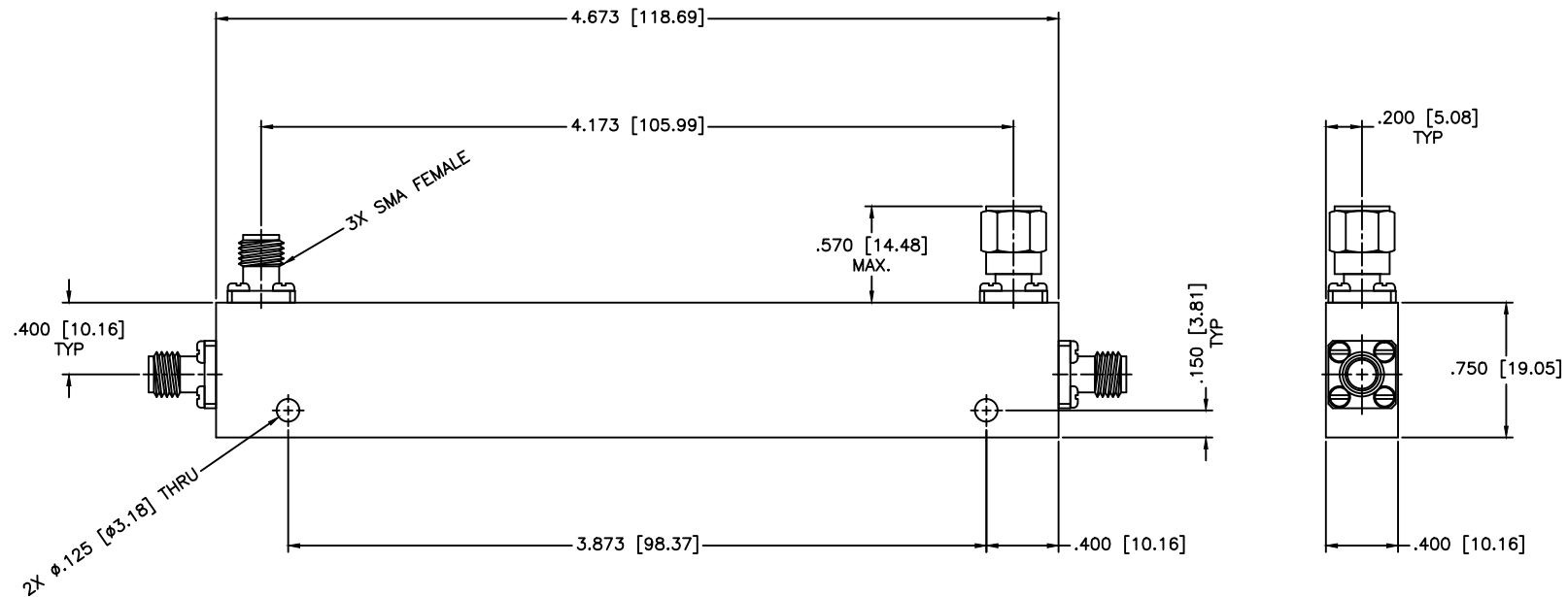


| REVISIONS |     |             |      |          |
|-----------|-----|-------------|------|----------|
| ZONE      | REV | DESCRIPTION | DATE | APPROVED |



#### SPECIFICATIONS

Frequency Range: 0.5–2.0 GHz  
 Coupling:  $20 \pm 1.0$  dB  
 Insertion Loss: 0.4 dB Max.  
 Frequency Sensitivity:  $\pm 0.75$  dB  
 Directivity: 23 dB Min.  
 Impedance: 50 Ohms  
 VSWR: 1.20:1 Max.  
 Power: 5W Avg, 3kW Peak

#### Environmental

Storage Temperature:  $-65^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$   
 Operating Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
 Humidity: 90–95% RH,  $40^{\circ}\text{C}$ , 96 hours

|                           |  |                                                                                                                                                                                                            |         |               |
|---------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------|
| MATERIAL:                 |  | <b>MCLI</b> MICROWAVE COMMUNICATIONS LABORATORIES INC.<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> |         | SCALE: 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: $\pm 1/2^{\circ}$                                      |         | SHEET: N/A    |
| DRAWN: Paiboon Luekhamhan |  | DRAWING TITLE: DIRECTIONAL COUPLER                                                                                                                                                                         |         |               |
| DATE: 11-14-1997          |  | PART NO. CB1-20                                                                                                                                                                                            |         |               |
| APPROVED: T. Nguyen       |  | DATE: 11-14-1997                                                                                                                                                                                           |         |               |
| THIRD ANGLE PROJECTION    |  | CAGE CODE: OD2L5                                                                                                                                                                                           | SIZE: A | REV: C        |
|                           |  | DO NOT SCALE THE DRAWING                                                                                                                                                                                   |         | DWG NO. 80493 |