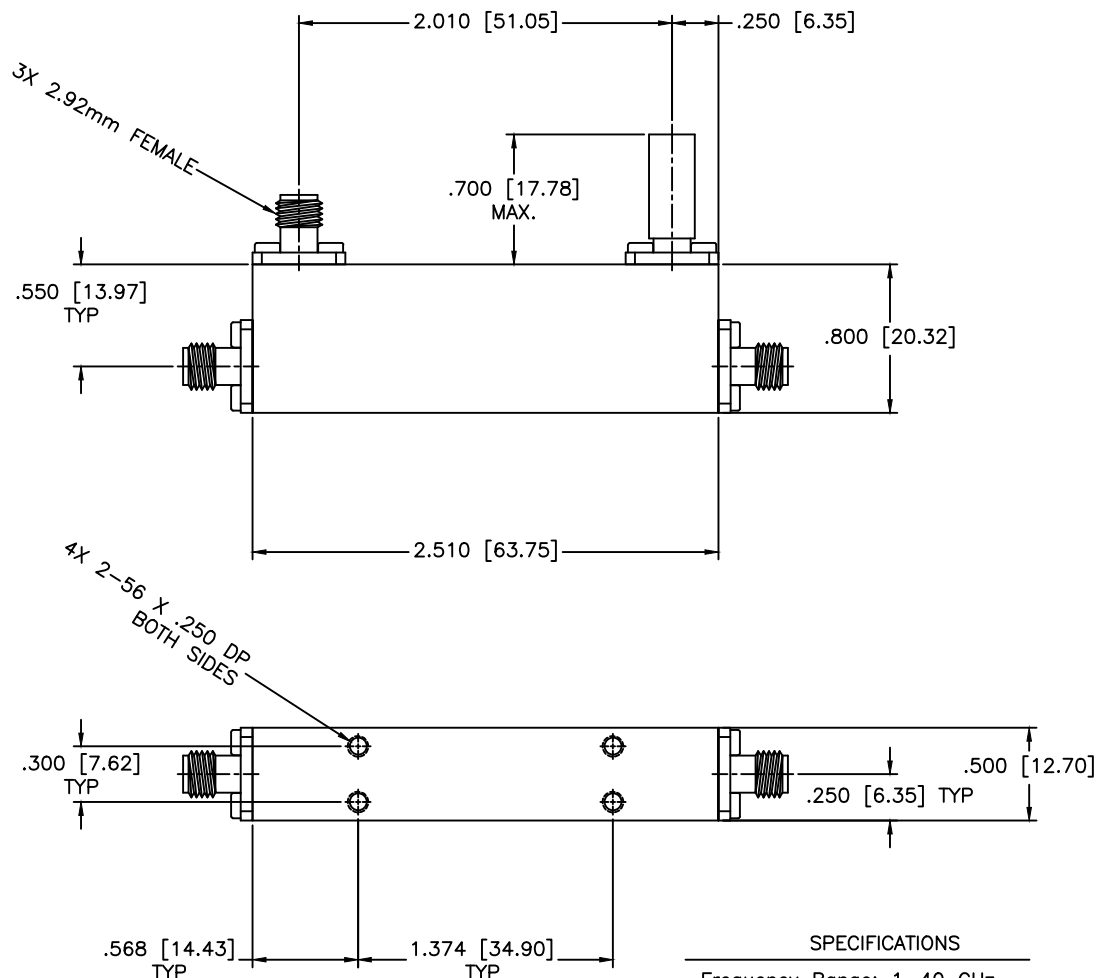


| REVISIONS |     |             |      |          |
|-----------|-----|-------------|------|----------|
| ZONE      | REV | DESCRIPTION | DATE | APPROVED |



#### SPECIFICATIONS

Frequency Range: 1-40 GHz  
Coupling: 20±0.9dB  
VSWR: 1.70:1 Max.  
Insertion Loss: 1.8dB Max.  
Directivity: 10dB Min.  
Frequency Sensitivity: ±1.0dB  
Power: 20W Avg, 3kW Peak  
Operating Temperature: -32°C to +85°C

|                                               |  |                                                                                                                                                                                                     |                                                                                                                                                              |         |               |
|-----------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------|
| MATERIAL:                                     |  |                                                                                                                                                                                                     | 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    |
| DRAWN: Paiboon Luekhamhan<br>DATE: 02-22-2011 |  | UNLESS OTHERWISE SPECIFIED:<br>TOLERANCES<br>IN (INCHES) OR [mm] (MILLIMETERS)<br>FRACTIONS: ± 1/64<br>DECIMALS: ±.01 ±.005<br>ANGLE: ±1/2°                                                         | DRAWING TITLE: DIRECTIONAL COUPLER                                                                                                                           |         |               |
|                                               |  |                                                                                                                                                                                                     | PART NO. CB87-20                                                                                                                                             |         |               |
| APPROVED: T. Nguyen<br>DATE: 02-22-2011       |  | 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: OD2L5                                                                                                                                             | SIZE: A | REV: A        |
|                                               |  |                                                                                                                                                                                                     | DO NOT SCALE THE DRAWING                                                                                                                                     |         | DWG NO. 85561 |