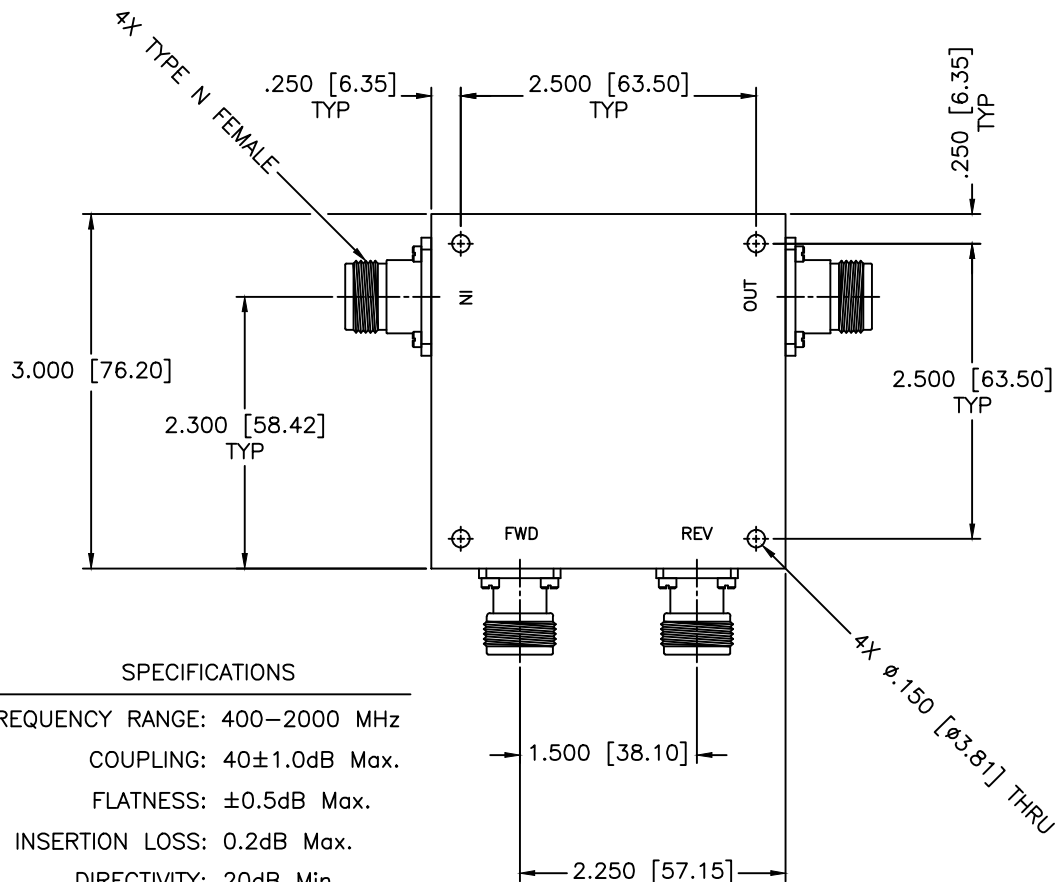
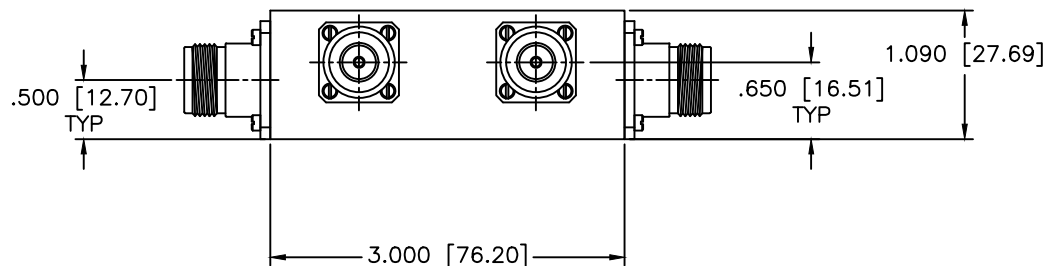


| REVISIONS |     |             |      |          |
|-----------|-----|-------------|------|----------|
| ZONE      | REV | DESCRIPTION | DATE | APPROVED |



#### SPECIFICATIONS

FREQUENCY RANGE: 400–2000 MHz  
 COUPLING:  $40 \pm 1.0$  dB Max.  
 FLATNESS:  $\pm 0.5$  dB Max.  
 INSERTION LOSS: 0.2 dB Max.  
 DIRECTIVITY: 20 dB Min.  
 VSWR (ML): 1.30:1 Max.  
 POWER: 200W CW



|                                                                                                                                                                   |                     |                                                                                                                                                                                                     |                          |           |          |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|----------|------------------|
| MATERIAL:                                                                                                                                                         |                     | 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               |           |          |                  |
|                                                                                                                                                                   |                     |                                                                                                                                                                                                     | SHEET: N/A               |           |          |                  |
| UNLESS OTHERWISE SPECIFIED:<br>TOLERANCES<br>IN (INCHES) OR (mm) (MILLIMETERS)<br>FRACTIONS: $\pm 1/64$<br>DECIMALS: $\pm .02 \pm .009$<br>ANGLE: $\pm 1/2^\circ$ |                     | DRAWING TITLE:<br>4-PORT DUAL DIRECTIONAL COUPLER                                                                                                                                                   |                          |           |          |                  |
|                                                                                                                                                                   |                     | PART NO.<br>HDL-53-402/NF                                                                                                                                                                           |                          |           |          |                  |
| DRAWN:<br>Paiboon                                                                                                                                                 | DATE:<br>05-16-2024 | 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      | SIZE: N/A | REV: N/A | DWG NO.<br>87146 |
| APPROVED:<br>T. Nguyen                                                                                                                                            | DATE:<br>05-16-2024 |                                                                                                                                                                                                     | DO NOT SCALE THE DRAWING |           |          |                  |