

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.  
 ALL LENGTH DIMENSIONS TOLERANCE  $\pm 0.010$ " UNLESS OTHERWISE SPECIFIED.  
 ALL DIAMETER DIMENSIONS TOLERANCE  $\pm 0.005$ " UNLESS OTHERWISE SPECIFIED.

MATERIAL: ALUMINUM 6061-T6.  
 FINISH: GREY ACRYLIC PAINT.  
 PROPERTY OF WERBEL MICROWAVE LLC

## SPECIFICATIONS

Frequency Range 1,000-4,000 MHz  
 Insertion Loss 0.4 dB, max.  
 Maximum Input Power 100 Watts, max.  
 Mainline VSWR 1.25:1, max.  
 Coupling VSWR 1.40:1, max.  
 Directivity 15 dB, min.  
 Coupling Tolerance  $50 \pm 2.0$  dB, max.

Operating Temperature -40 to +65 °C  
 Tested at +25 °C

R.F. Interface (Mainline) N-Female, 50-ohm  
 5/8-24 Thread

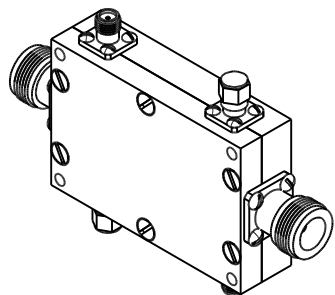
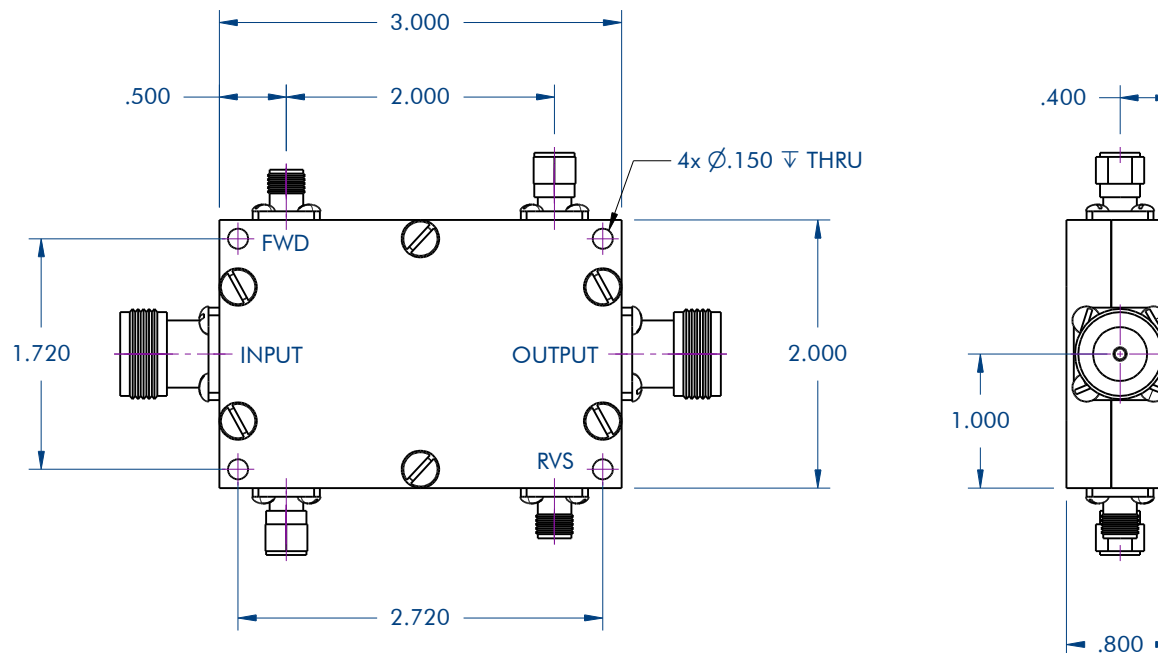
R.F. Interface (Coupled) SMA-Female, 50-ohm  
 1/4-36 Thread

Intermodulation -145 dBc, typ. (by design only)

Environment Indoor use only.

Rated power for load VSWR of 1.20:1 max.

| REVISIONS |     |                                  |           |           |
|-----------|-----|----------------------------------|-----------|-----------|
| ZONE      | REV | DESCRIPTION                      | DATE      | APPROVED  |
|           | 0   | Initial release.                 | 4/29/2015 | E. Werbel |
|           | 1   | New outline, reduced power spec. | 5/26/2015 | E. Werbel |



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DRAWN

E. Werbel

CHECKED

QA

MFG

APPROVED

DATE

4/29/2015

# WERBEL MICROWAVE

## Directional Coupler 1,000-4,000MHz, 50-dB, 100W, N/SMA-Female

SIZE  
**A**

CAGE CODE.

78YZ0

DWG NO.

WMDD50-1-4-100W-NS

REV

1

SCALE

1/1.5

SHEET

1 of 1