



## PRODUCT DATA SHEET

C8064

**3-Port Uni-Directional Coupler:** Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

### Features:

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

### Electrical Specifications:

Frequency: 1 - 120 MHz  
 Power: 1000 W CW  
 Coupling:  $20 \pm 1.0$  dB Max.  
 Insertion Loss: 0.15 dB Max.  
 Flatness:  $\pm 0.3$  dB Max.  
 VSWR (ML): 1.15:1 Max.  
 Directivity: 20 dB Min.

### Mechanical Specifications:

Type: Connectorized  
 Material: Aluminum 6061-T6  
 Surface Finish: Chem. Film Per MIL-DTL-5541F  
 Type I Class 3 (Yellow Iridite)  
 RoHS Compliant Available  
 Operating Temperature: -55°C to +75°C  
 Storage Temperature: -60°C to +85°C  
 Humidity: 95% Non-Condensing  
 Size: 4.0 x 4.0 x 2.25"

### Connector Configurations:

| Model     | Input (J1) | Output (J2) | Fwd (J3) |
|-----------|------------|-------------|----------|
| C8064-10  | N Female   | N Female    | N Female |
| C8064-12  | N Female   | N Female    | SMA      |
| C8064-13  | N Female   | N Female    | BNC      |
| C8064-102 | SMA        | SMA         | SMA      |

**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



# WERLATONE

Model C8064

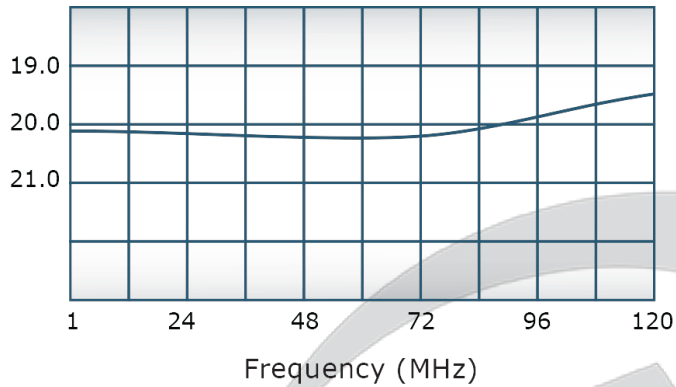


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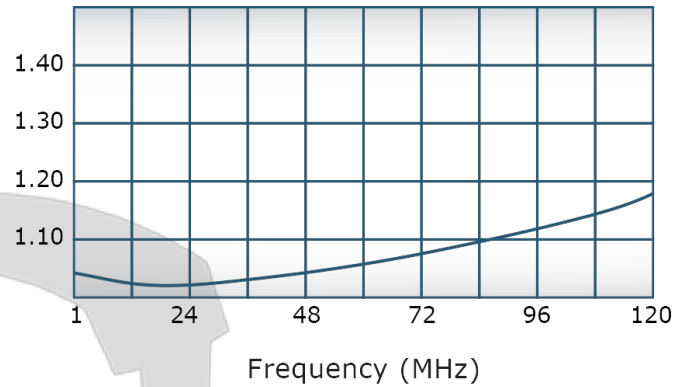
C8064

### Performance Data (Specifications subject to change without notice):

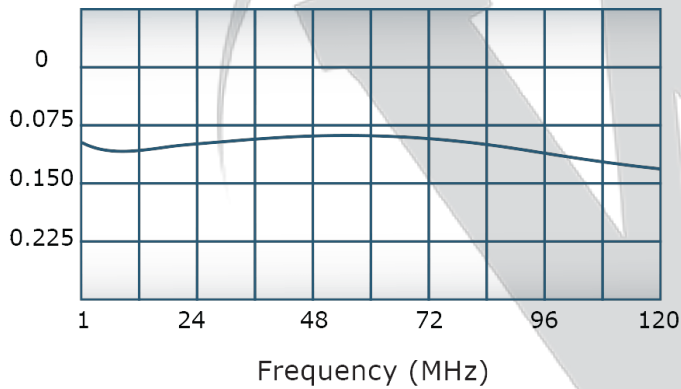
Coupling:



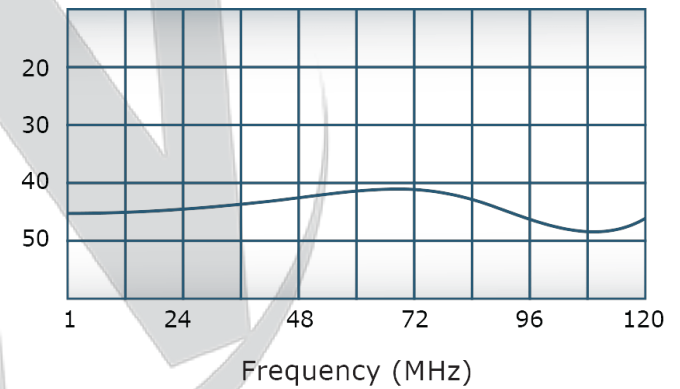
VSWR:



Insertion Loss:



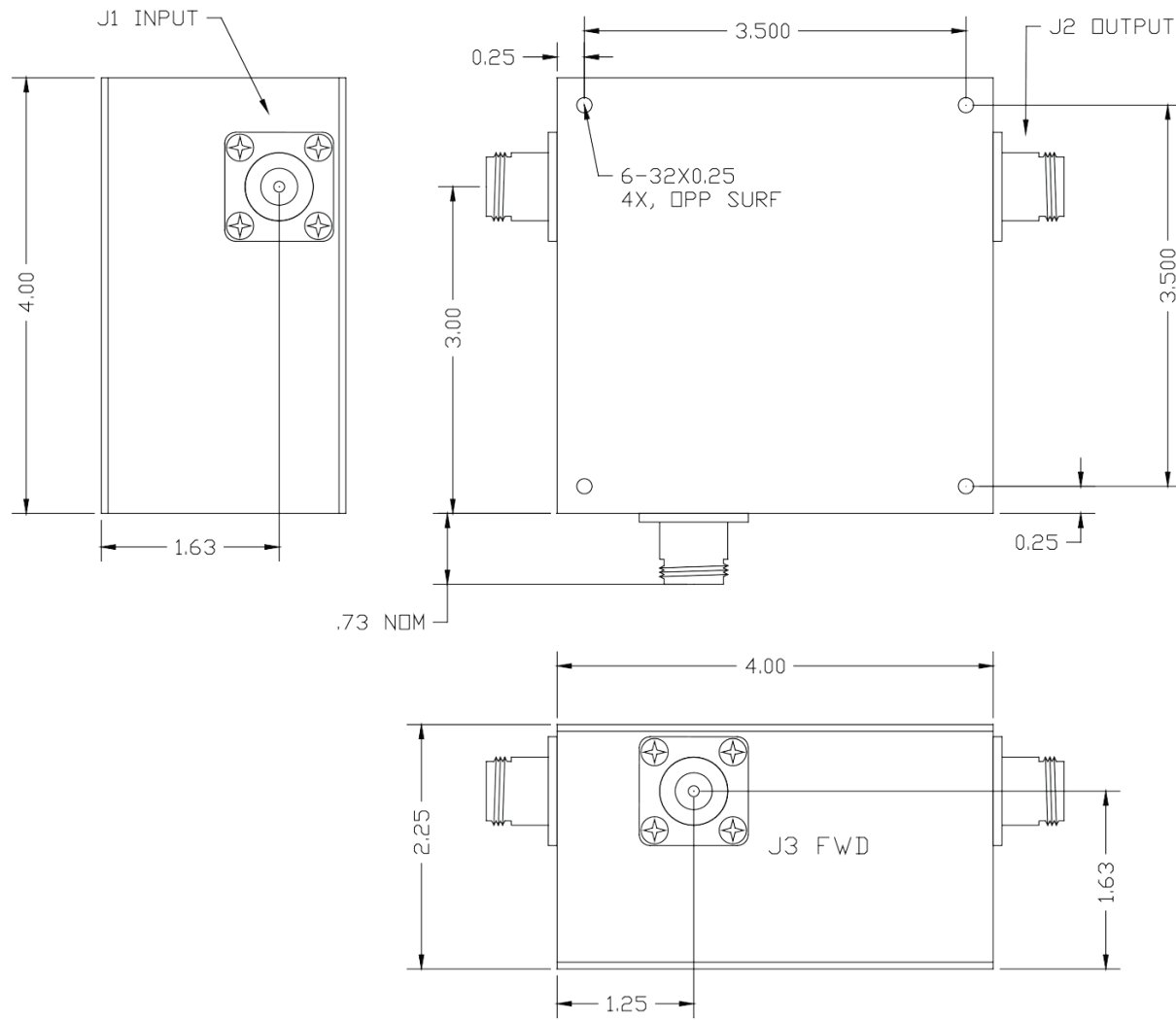
Directivity:



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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

| DATE    | SYM | REVISION RECORD | AUTH | DR | CK |
|---------|-----|-----------------|------|----|----|
| 4-18-12 | A   | ECN 5646        | SC   |    |    |
|         |     |                 |      |    |    |
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|-----------------------------|------------------|------------------------------|--------------|--------------|
| TOLERANCE                   | WERLATONE INC.   |                              |              |              |
| XX +/- .015<br>XXX +/- .005 | SCALE            |                              | DRAWN BY: MJ | APPVD BY: CS |
|                             |                  |                              |              |              |
|                             | DATE<br>11/30/07 | DRAWING NUMBER<br>20385-500A |              |              |

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