

**4-Port Dual Directional Coupler** employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

**Features:**

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

**Electrical Specifications:**

Frequency:      10 - 100 MHz  
 Power:          1000 W CW  
 Coupling:        50 ± 1.0 dB Max.  
 Insertion Loss: 0.1 dB Max.  
 Flatness:        ± 0.25 dB Max.  
 VSWR (ML):    1.10:1 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:             3.75 x 3.0 x 1.87"

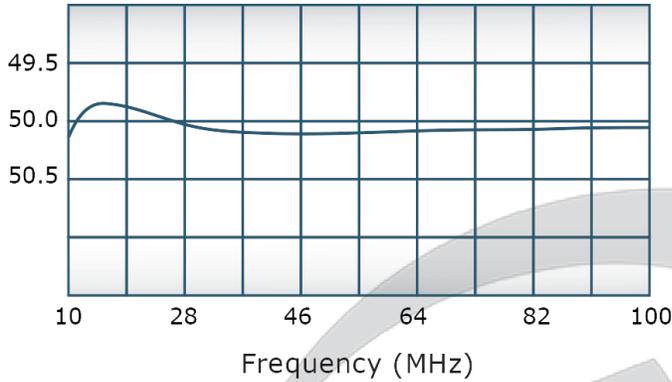
**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5671-10	N Female	N Female	N Female	N Female
C5671-12	N Female	N Female	SMA	SMA
C5671-13	N Female	N Female	BNC	BNC
C5671-63	HN Female	HN Female	SMA	SMA

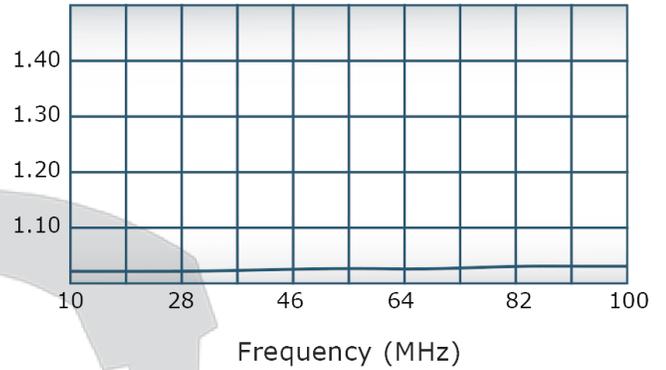
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into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

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

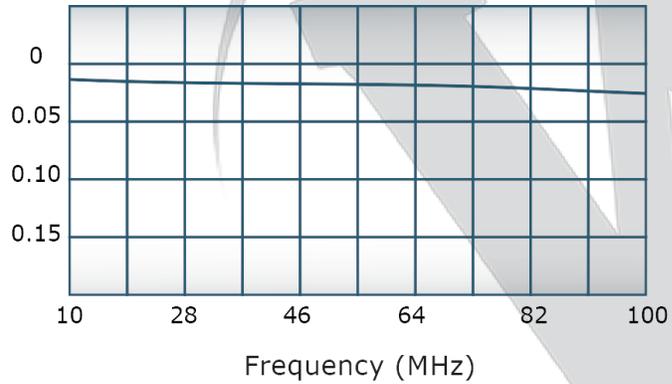
Coupling:



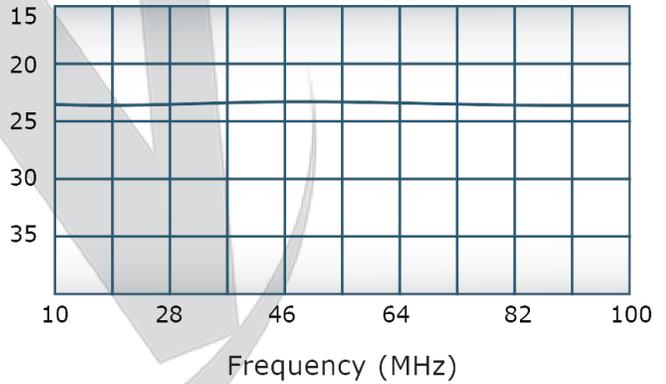
VSWR:



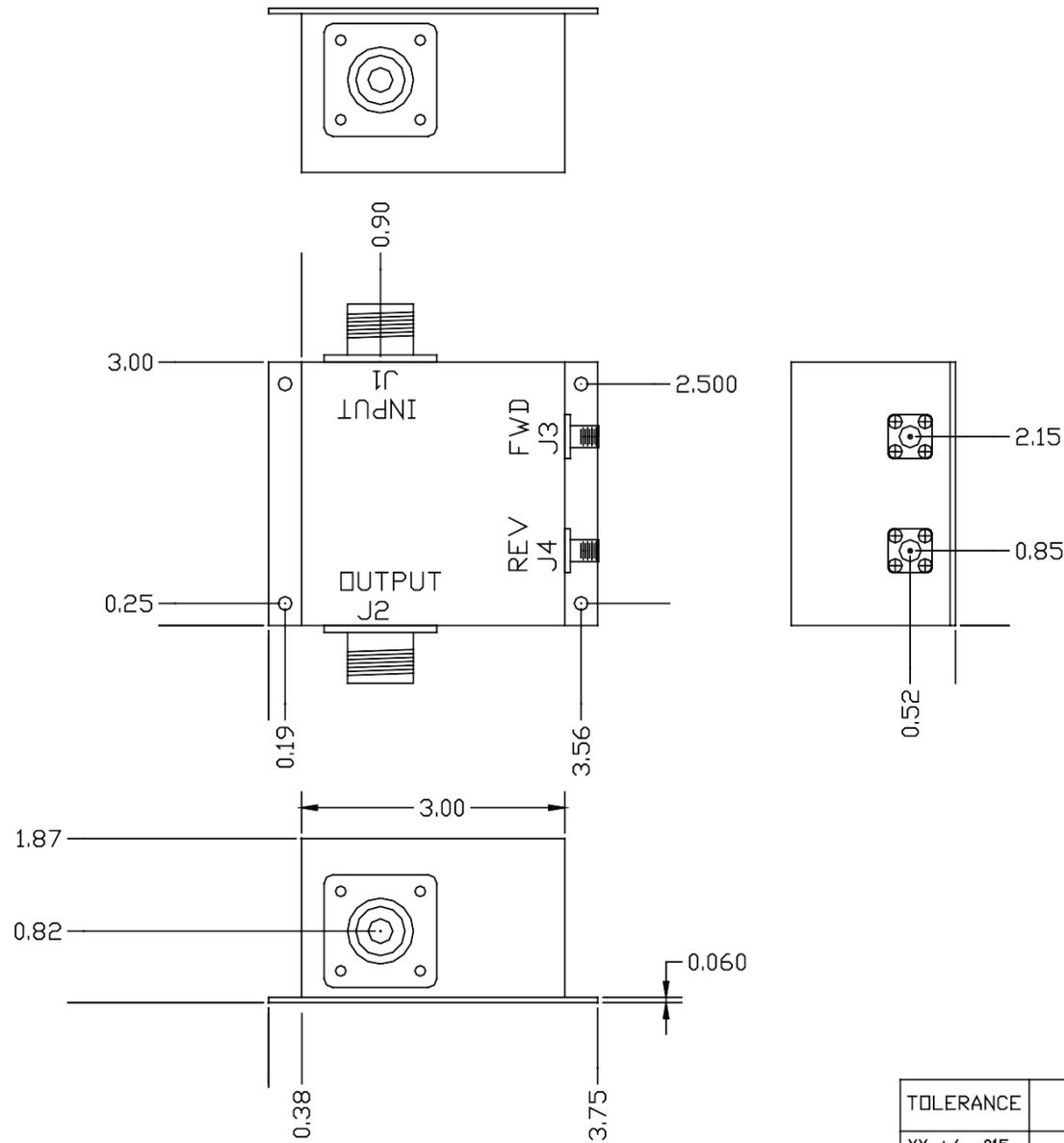
Insertion Loss:



Directivity:



DATE	SYN	REVISION RECORD	DR	CK
2/00	A	ECN 1718	JD	



THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO WERLATONE INC. AND MAY NOT BE USED OR COPIED WITHOUT THE WRITTEN CONSENT OF WERLATONE INC.

TOLERANCE	WERLATONE INC.		
XX +/- .015 XXX +/- .005	SCALE	DRAWN BY: JD	
		APPVD BY:	
	TITLE	OUTLINE	
	DATE	DRAWING NUMBER	
	12/23/99	10640-500	

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc. Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com