


**PRODUCT DATA SHEET**
**C3093**

**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: 2 - 50 MHz  
Power: 200 W CW  
Coupling:  $6 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.25$  dB Max.  
VSWR (ML): 1.15:1 Max.  
Directivity: 20 dB Min.

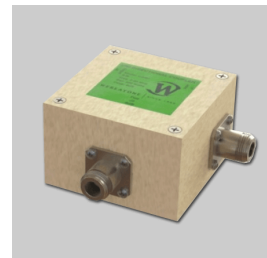
**Mechanical Specifications:**

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: 3 x 3 x 1.95"  
Weight: 1 lb.

**Port Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)
C3093-10	N Female	N Female	N Female
C3093-12	N Female	N Female	SMA
C3093-13	N Female	N Female	BNC
C3093-102	SMA	SMA	SMA
C3093-300	TNC	TNC	TNC

**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.

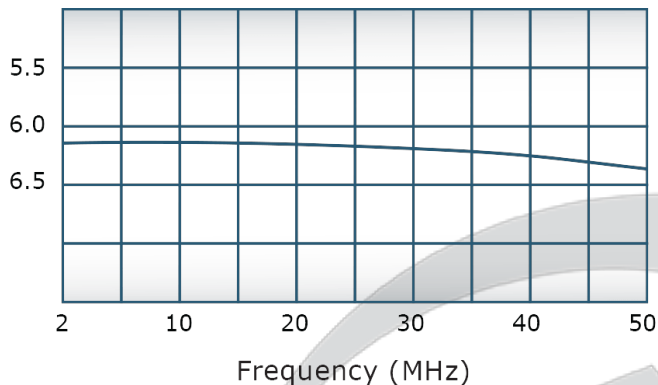


## PRODUCT DATA SHEET

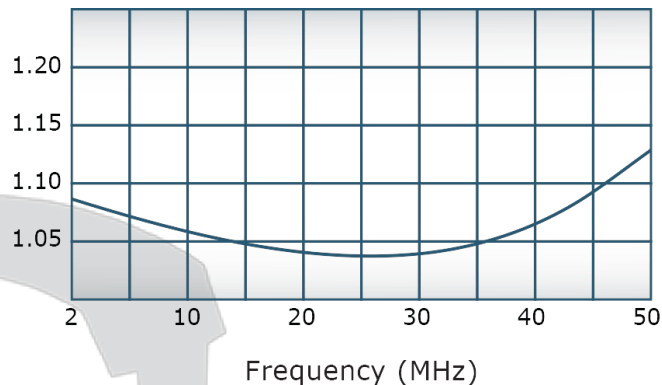
C3093

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

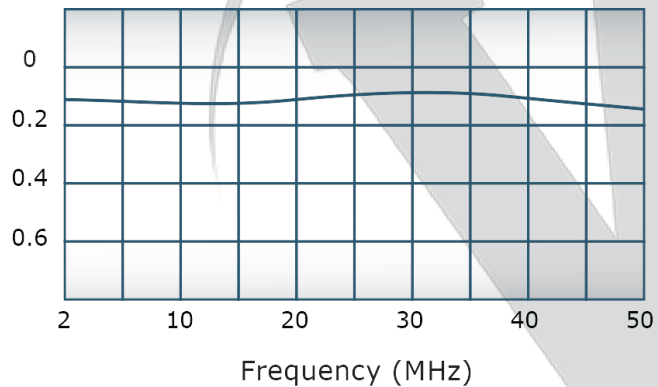
Coupling:



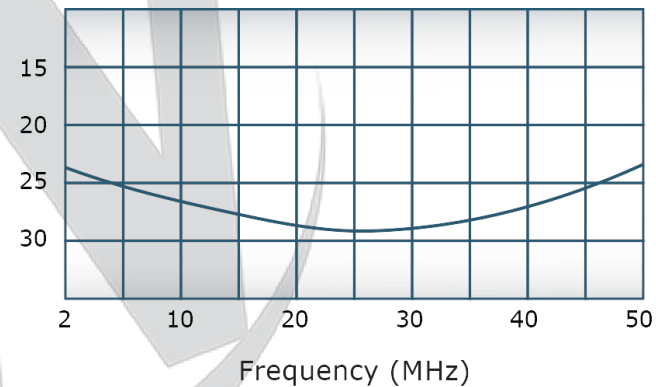
VSWR:



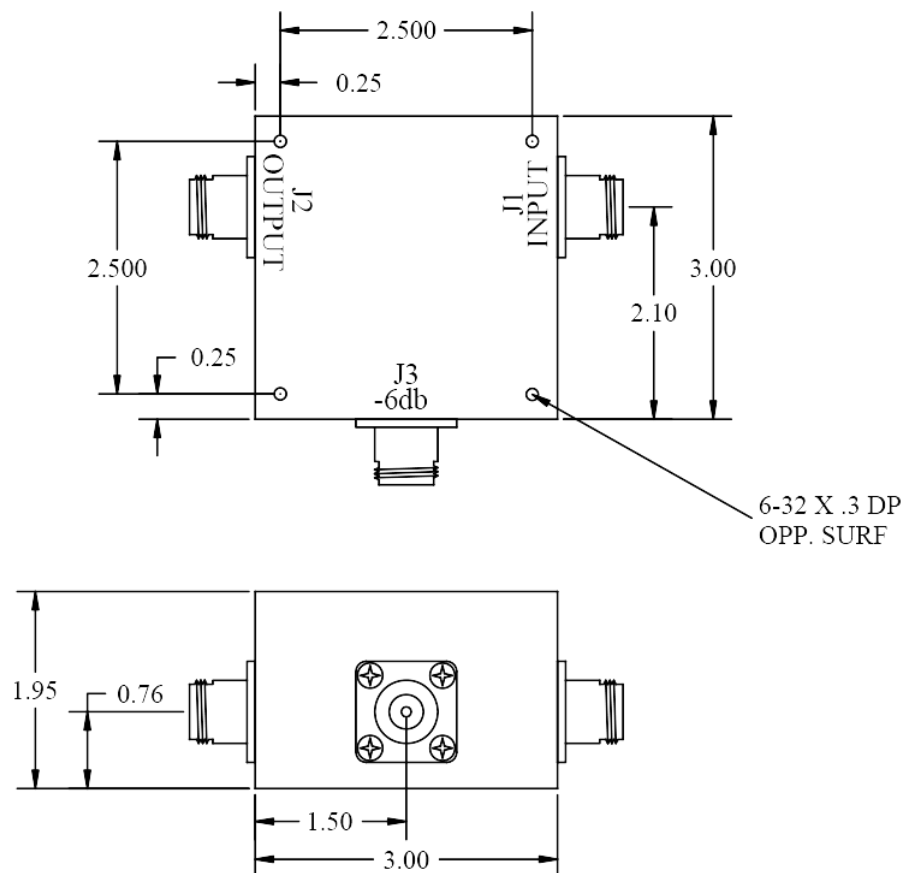
Insertion Loss:



Directivity:



DATE	SYM	REVISION RECORD	AUTH	DR	CK



TOLERANCE	WERLATONE INC.		
XX +/- .015 XXX +/- .005	USED ON:	SCALE	DRAWN BY: RH APPVD BY: CS
	TITLE <b>OUTLINE</b>		
	DATE 11/10/04	DRAWING NUMBER	

**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