WERLATONE

Model C10701
Connectorized Directional Couplers



PRODUCT DATA SHEET **C10701**

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:	0.01 - 500 MHz
Power:	100 W CW
Coupling:	30 ± 1.0 dB Max.
Insertion Loss:	0.8 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.25:1 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:	5.2 x 2.67 x 1.69"

Connector Configurations:

Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C10701-10	N Female	N Female	N Female	N Female
C10701-12	N Female	N Female	SMA	SMA
C10701-13	N Female	N Female	BNC	BNC
C10701-102	SMA	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.

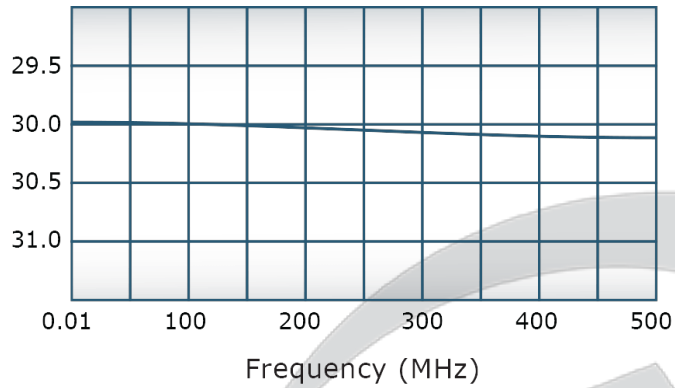
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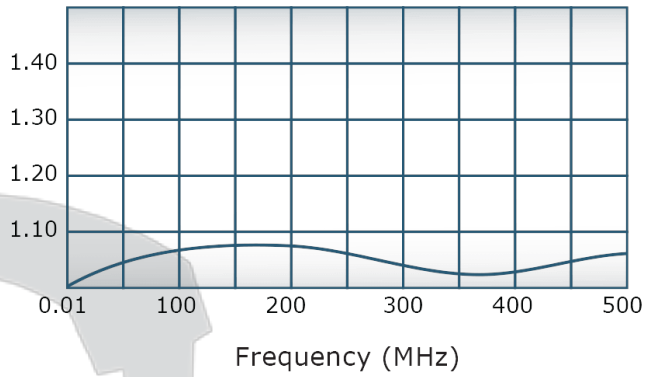


Performance Data (Specifications subject to change without notice):

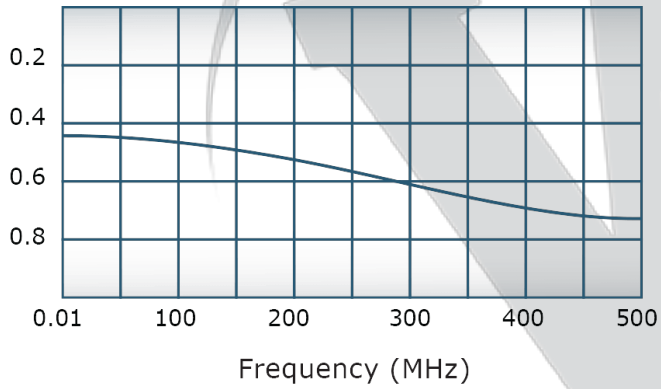
Coupling:



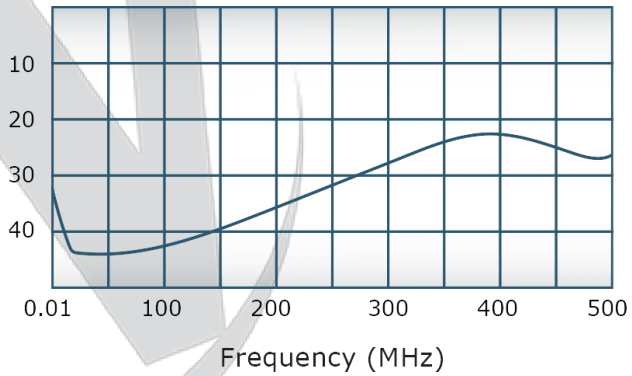
VSWR:



Insertion Loss:



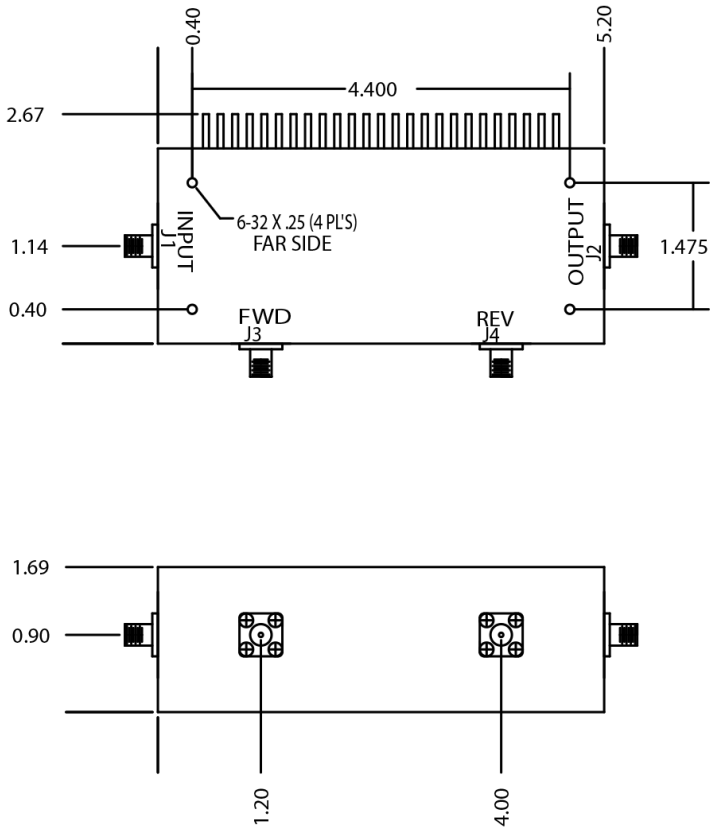
Directivity:



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DATE	SYM	REVISION RECORD	AUTH	DR	CK



TOLERANCE (EXCEPT AS NOTED)	WERLATONE INC.		
XX +/- .015 XXX +/-.005	USED ON: C4049	SCALE	DRAWN BY BW APPROVED BY BW 12/96
	TITLE OUTLINE		
	DATE 9/13/96	DRAWING NUMBER 10407-501	

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