
**PRODUCT DATA SHEET**
**C10462**

**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:            700 - 4200 MHz  
 Power:                250 W CW  
 Coupling:             40 ± 1.0 dB Max.  
 Insertion Loss:      0.2 dB Max.  
 Flatness:              ± 1.0 dB Max.  
 VSWR (ML):         1.30:1 Max.  
 Directivity:           15 dB Min.

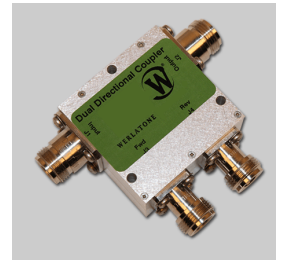
**Mechanical Specifications:**

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:                    2.0 x 2.0 x 1.06"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10462-10	N Female	N Female	N Female	N Female
C10462-12	N Female	N Female	SMA	SMA
C10462-714	N Male	N Female	N Female	N Female

**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.

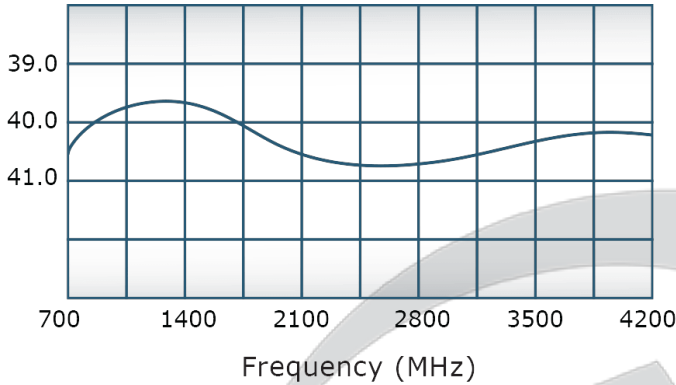


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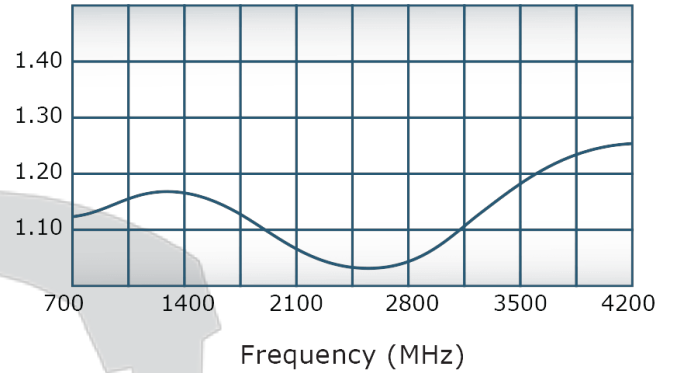
C10462

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

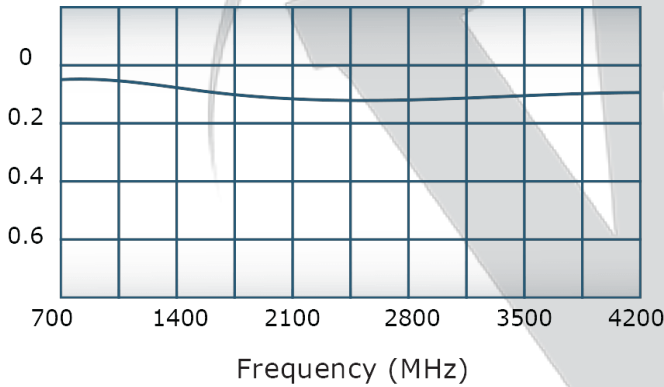
Coupling:



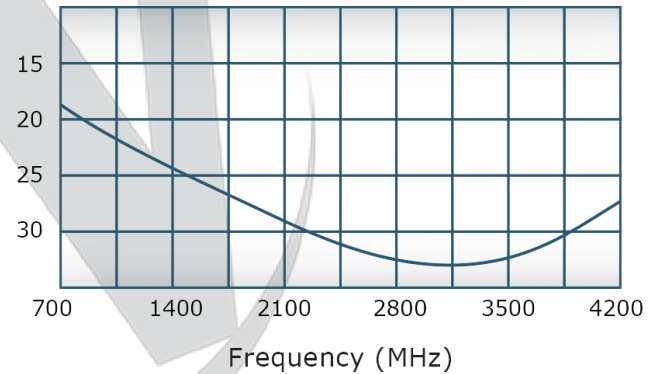
VSWR:



Insertion Loss:



Directivity:



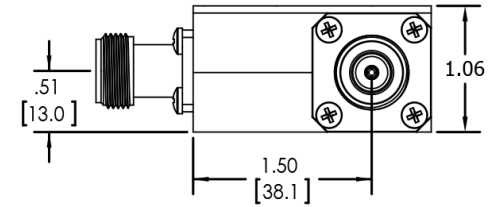
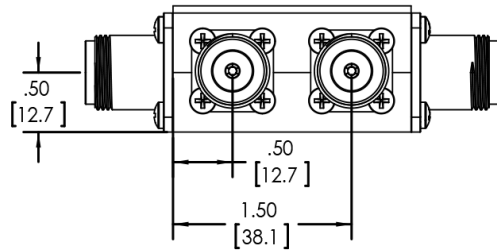
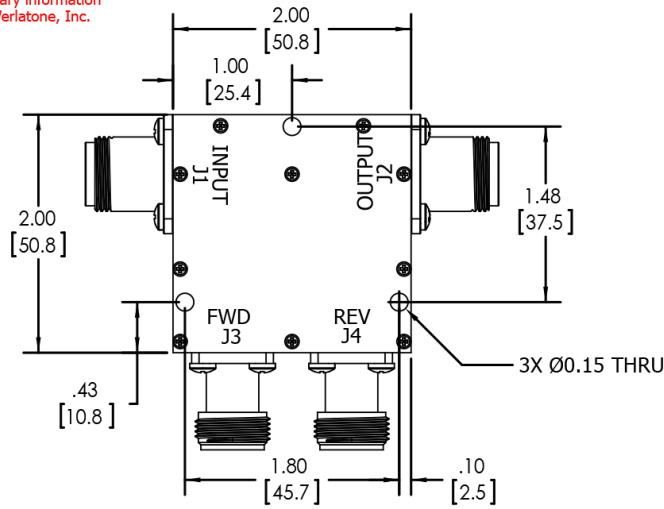
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Werlatone, Inc.

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		



UNLESS OTHERWISE SPECIFIED		DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
INT	SC	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
CHK	CS	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
ENGR	ENGR	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
MPGR	MPGR	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
QA	QA	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
RELSE	RELSE	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
APPLICATION		THIRD ANGLE PROJECTION		SCALE		1:1		SHEET 1 OF 1	
NEXT ASSY USED ON		C10117		TITLE		OUTLINE		REV	
				SIZE		B 28812 21250-500		-	
				CAGE CODE		DWG NO			
				17 Jon Barrett Rd		Patterson, NY 12563			
				WERLATONE SINCE 1965					

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