
**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.

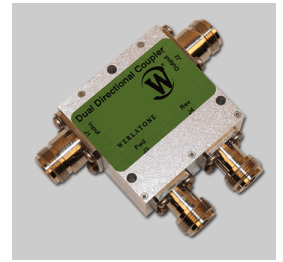
**Mechanical Specifications:**

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:**

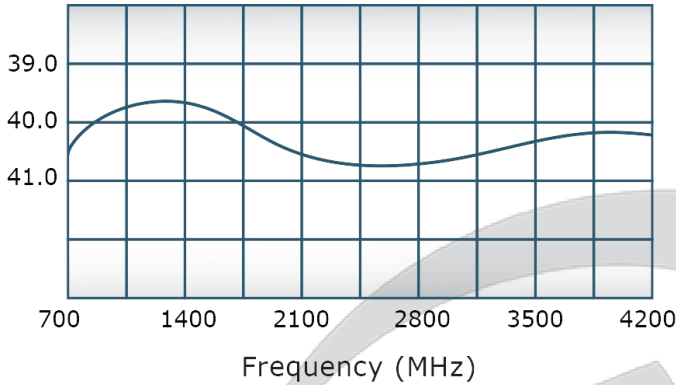
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10462-10	N Female	N Female	N Female	N Female
C10462-12	N Female	N Female	SMA	SMA
C10462-714	N Male	N Female	N Female	N Female

**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.

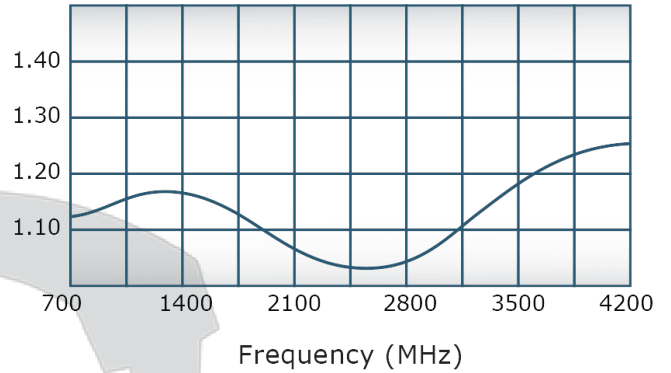


## Performance Data (Specifications subject to change without notice):

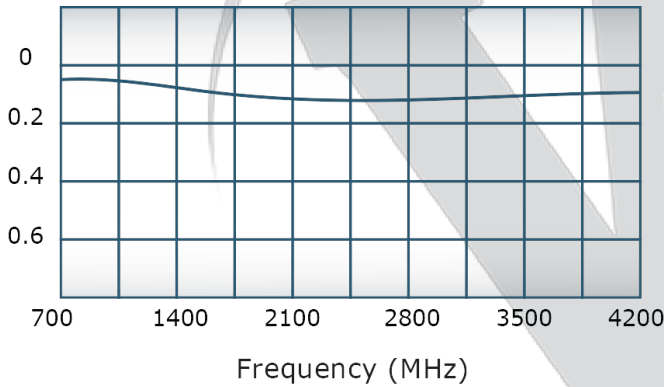
Coupling:



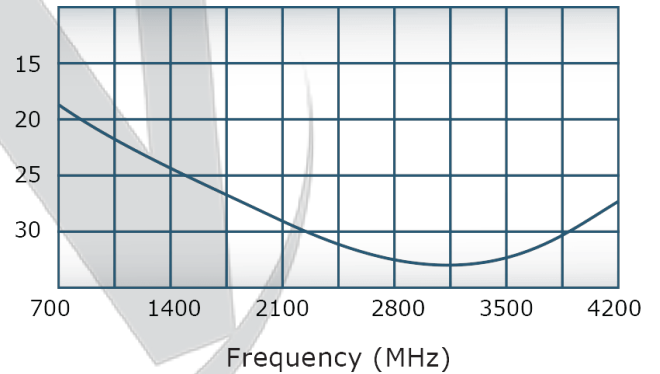
VSWR:



Insertion Loss:



Directivity:



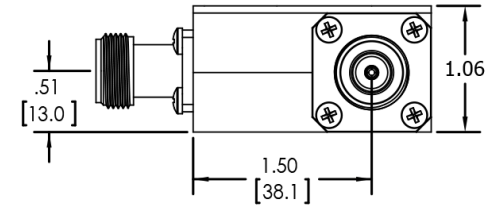
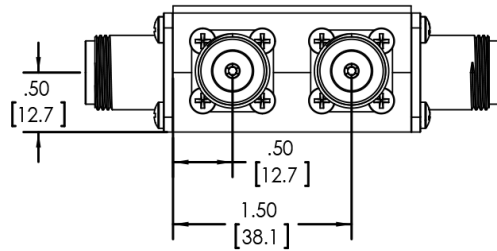
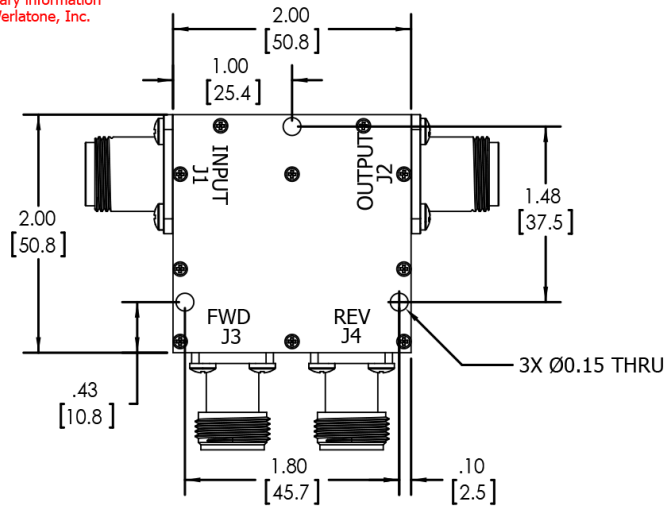
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Werlatone, Inc.

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

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		



UNLESS OTHERWISE SPECIFIED		DATE	9/30/2014	17 Jon Barrett Rd Patterson, NY 12563
INT	INTERPRET DRAWING IAW MIL-STD-100	SC	9/30/2014	WERLATONE SINCE 1965
CHK	DIMENSIONING PER ASME Y14.5M 2009	DATE	9/30/2014	
	PARENTHEetical INFO FOR REF ONLY	CS	9/30/2014	TITLE
	DIMENSIONS ARE IN INCHES (mm)	ENGR	DATE	OUTLINE
	DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	BW	9/30/2014	SIZE CAGE CODE DWG NO
	TOLERANCES:	MPGR	DATE	B 28812 21250-500
	ANGLES ± 2°	QA	DATE	REV
	3 PL ± .005 (.13)	RELE	DATE	-
	2 PL ± .015 (.4)			
	REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
	CONCENTRICITY MACHINED DIA. .002 FIM			
	MACHINE TOOL HIGHMATCH .003 MAX			
NEXT ASSY	C10117	SCALE	1:1	SHEET 1 OF 1
USED ON	THIRD ANGLE PROJECTION			

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