
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.

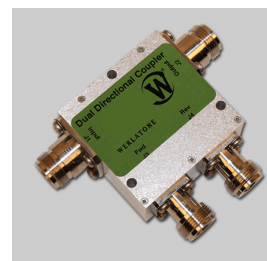
Mechanical Specifications:

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.

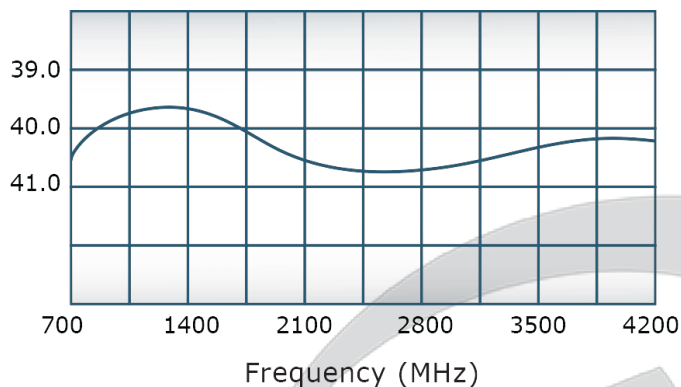


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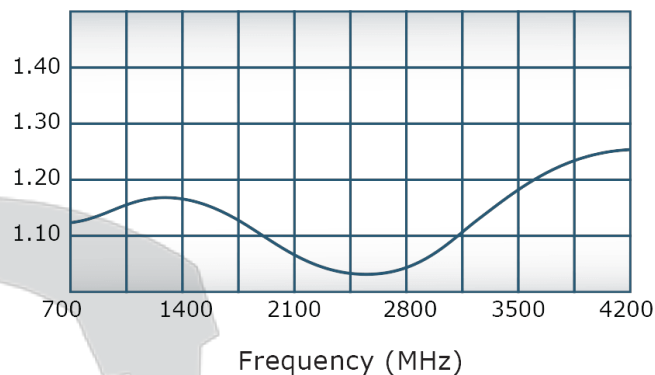
C10462

Performance Data (Specifications subject to change without notice):

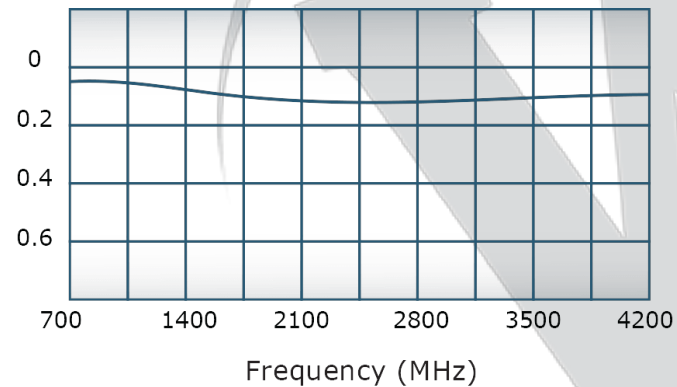
Coupling:



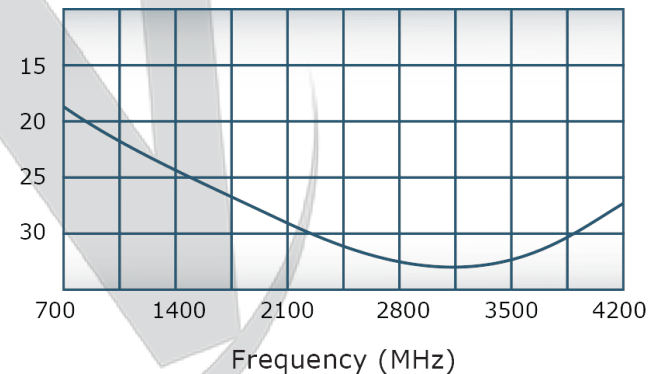
VSWR:



Insertion Loss:



Directivity:

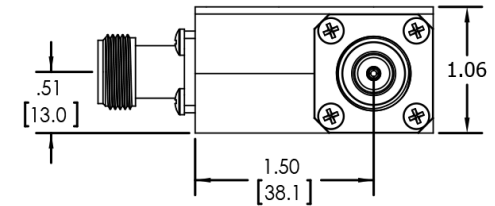
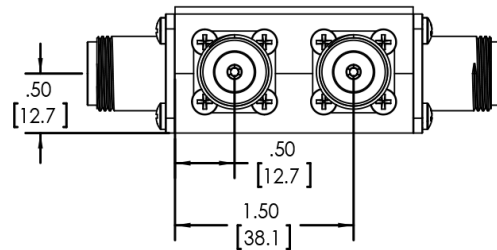
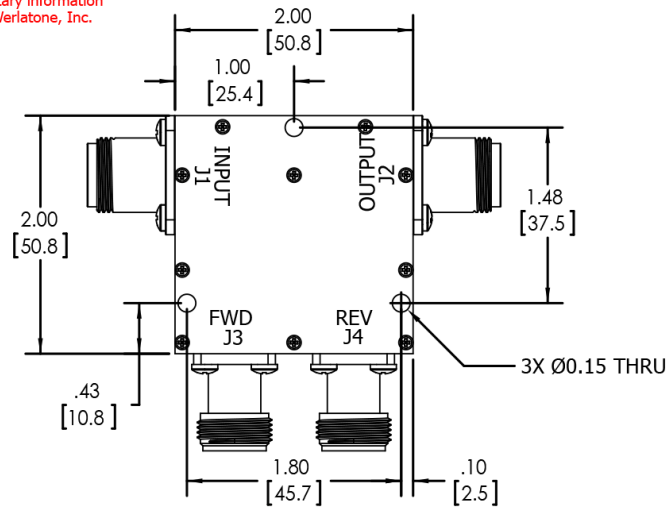



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		



UNLESS OTHERWISE SPECIFIED										OWN	DATE		WERLATONE®SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100										SC	9/30/2014				
DIMENSIONS PER ASME Y14.5M-2009										CHK	DATE				
DIMENSIONAL LIMITS APPLY BEFORE FINISHES										CS	9/30/2014				
TOLERANCES:										ENGR	DATE	TITLE			
ANGLES ± 2°										BW	9/30/2014	<h1>OUTLINE</h1>			
3 PL ± .005 [13]															
2 PL ± .015 [4]															
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX															
CONCENTRICITY MACHINED DIA. .002 FIM										QA	DATE	SIZE	CAGE CODE	DWG NO	REV
MACHINE TOOL MISMATCH .003 MAX										RELSE	DATE	B 28812	21250-500		-
NEXT APPSY USED ON										SCALE		1:1		SHEET 1 OF 1	
APPLICATION										THIRD ANGLE PROJECTION					

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