

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

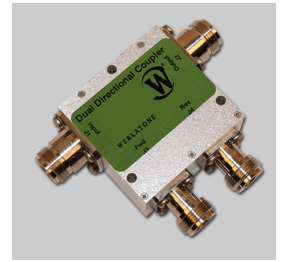
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C10462

Connectorized Directional Couplers

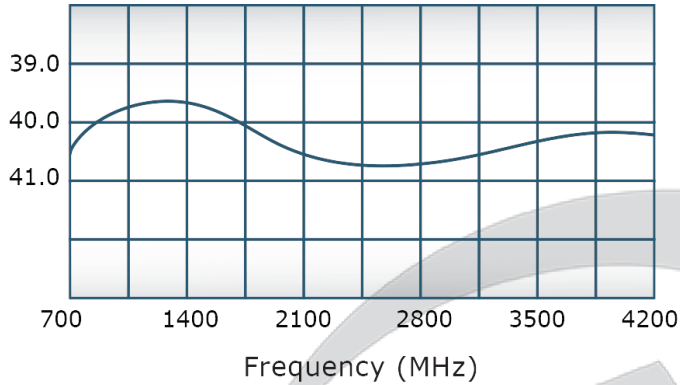


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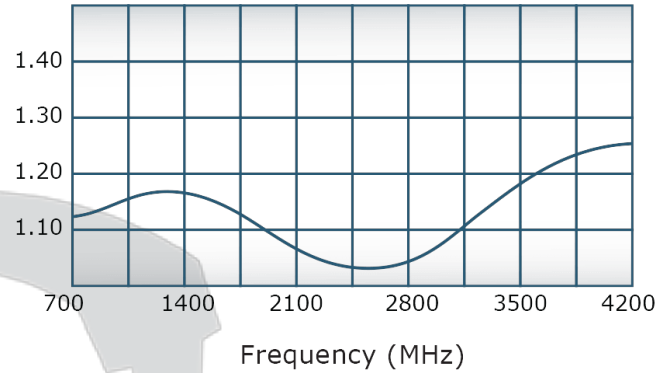
C10462

Performance Data (Specifications subject to change without notice):

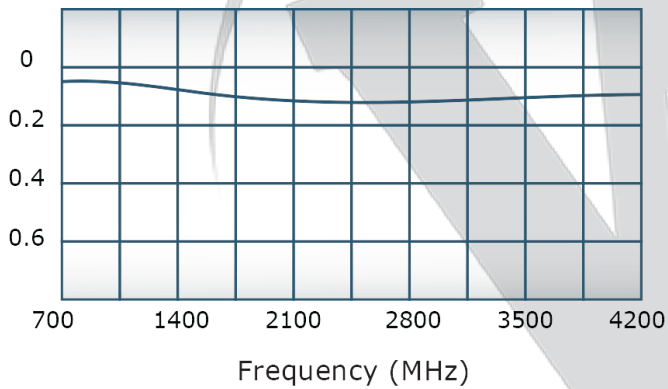
Coupling:



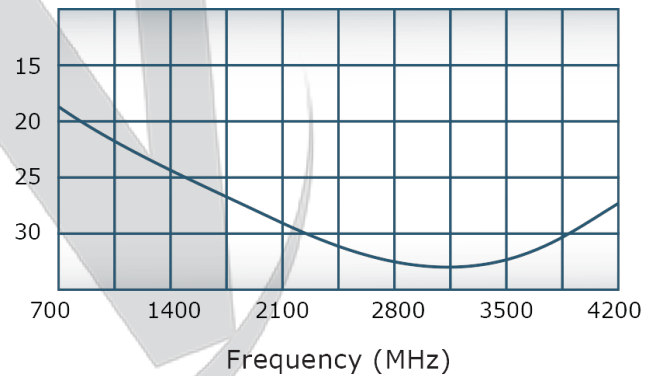
VSWR:



Insertion Loss:



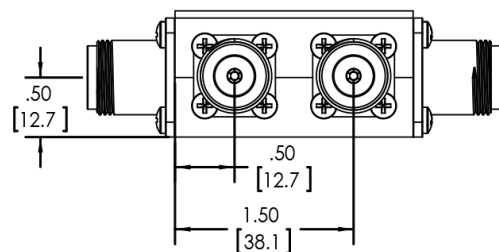
Directivity:





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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 VERLATON® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
<div>INTERPRET DRAWING JAW PEL STD-100</div> <div>DIMENSIONING FOR ASME Y14.5-2009</div> <div>ANNOTATIONAL DIMS FOR REF ONLY</div> <div>DIMENSIONS ARE IN INCHES (MM)</div> <div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div> <div>TOLERANCES:</div> <div>ANGLES ± 2°</div> <div>2 PL ± .002 [13]</div> <div>3 PL ± .015 [4]</div> <div>REMOVE ALL BURRS AND SHARP EDGES R0.1 MAX</div> <div>CINCH/RECTRICTY MACHINED DIA .002 FPM</div> <div>MACHINE TOOL FINISH/STOCK PROJECT</div>	SC	9/30/2014	 OUTLINE		SIZE	CAGE CODE	DWG NO
	CRK	DATE			B 28812	21250-500	REV -
	CS	9/30/2014					
	ENGR	DATE					
<div>C10117</div> <div>NEXT ASSY USED ON</div> <div>APPLICATION</div>	BW	9/30/2014	SCALE	1:1		SHEET 1 OF 1	
	MRGR	DATE					
	QA	DATE					
	RELEASE	DATE					

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