

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

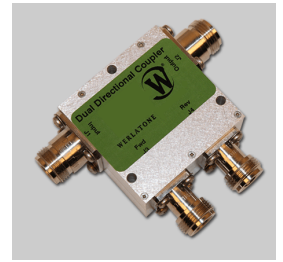
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C10462

Connectorized Directional Couplers

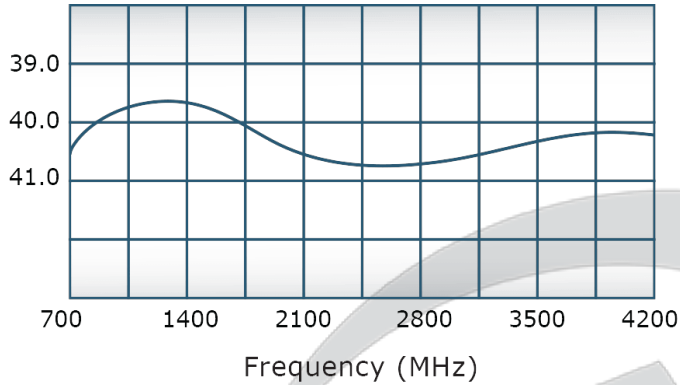


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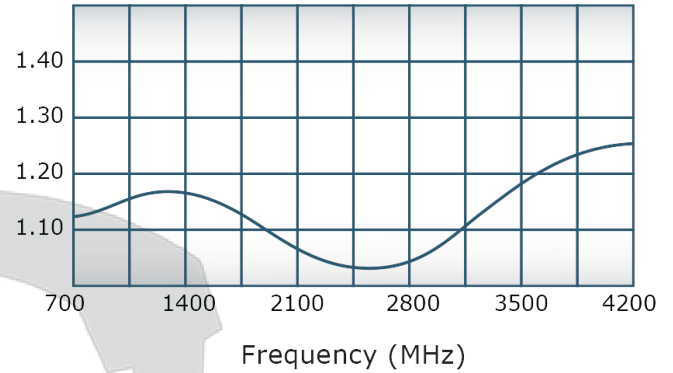
C10462

Performance Data (Specifications subject to change without notice):

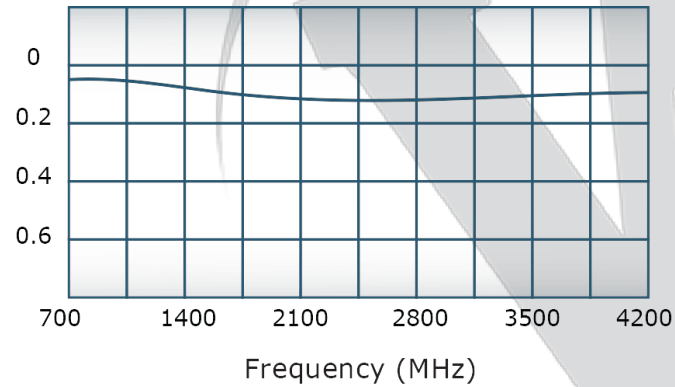
Coupling:



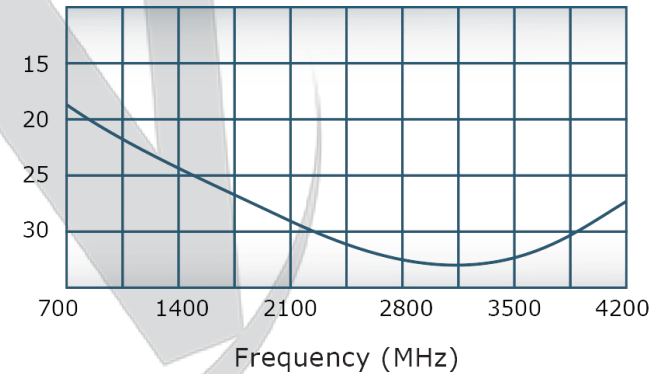
VSWR:



Insertion Loss:



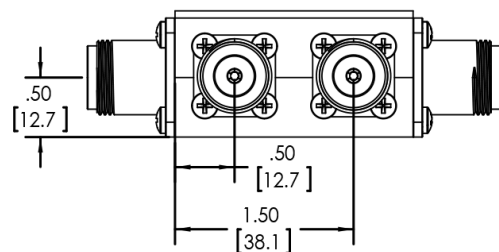
Directivity:



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UNLESS OTHERWISE SPECIFIED		DWG	DATE	 WERLATON® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
INTERPRET DRAWING IN ACCORDANCE WITH DIMENSIONS PER ASME Y14.5-2009 DIMENSIONAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES (mm)		SC	9/30/2014		 WERLATON® SINCE 1965		
DIMENSIONAL LIMITS APPLY BEFORE PRECISION TOLERANCES:		CRK	DATE				
ANGLES ± .005 3 PL ± .005 [13] 2 PL ± .015 [4]		CS	9/30/2014			TITLE	
REMOVE ALL BURRS AND SHARP EDGES R1.0 MAX CONCENTRICITY MAXIMUM DIA .002 FIM MACHINE TOOL FINISH .003 MAX		SPR	DATE				
		BW	9/30/2014				
		SA	DATE	OUTLINE			
		RELSE	DATE	SIZE B 28812	CASE CODE 21250-500	DWG NO 1:1	
				REV -			
C10117 USED ON ION		THIRD ANGLE PROJECTION		SHEET 1 OF 1			

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