

PRODUCT DATA SHEET

C6110

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: 400 - 2000 MHz
Power: 200 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 Max.
Directivity: 20 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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6110-10	N Female	N Female	N Female	N Female
C6110-12	N Female	N Female	SMA	SMA
C6110-13	N Female	N Female	BNC	BNC
C6110-16	N Male	N Male	SMA	SMA
C6110-41	SC Female	SC Female	N Female	N Female
C6110-712	N Male	N Female	SMA	SMA
C6110-714	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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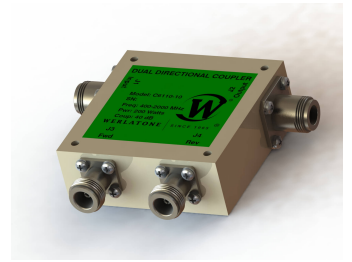
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6110

Connectorized Directional Couplers

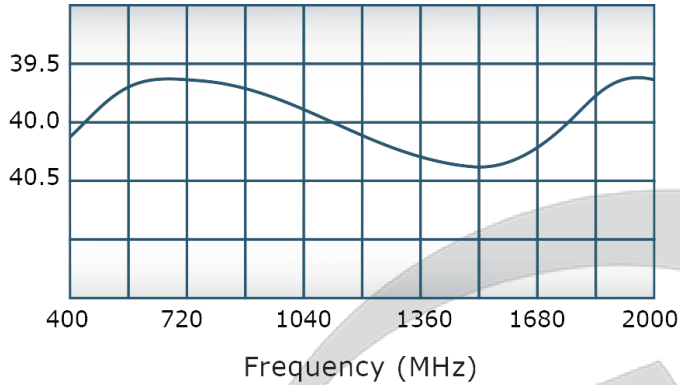


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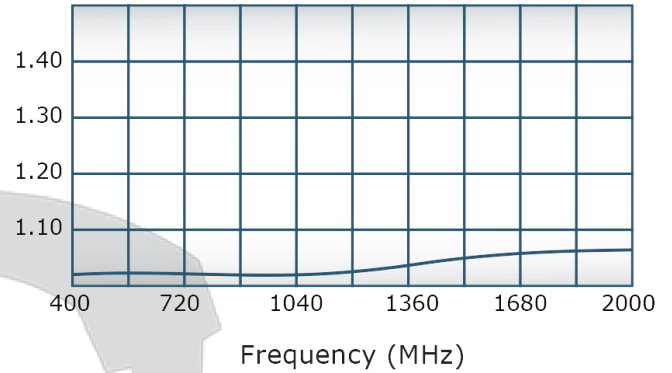
C6110

Performance Data (Specifications subject to change without notice):

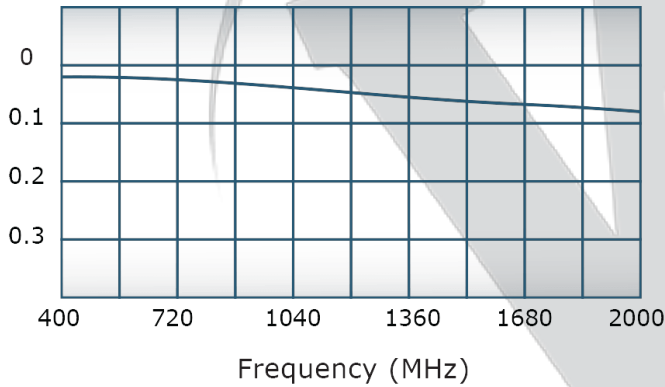
Coupling:



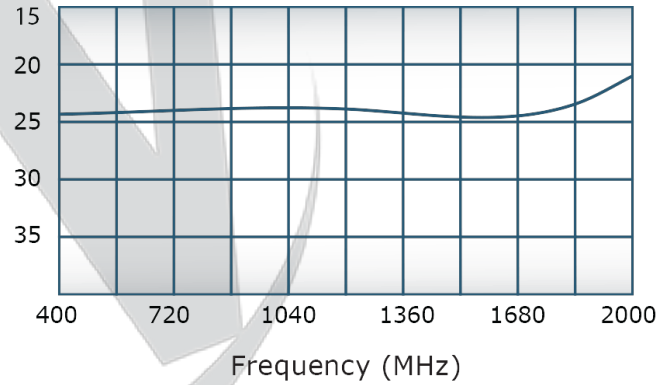
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL 5541F TYPE I CLASS 3 (YELLOW IRIDITE)

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12568	
		• INTERPRET DRAWING AS PER: STD-100		RH	7/5/2001			
		• DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		• ARCHITECTURAL UNITS FOR KEY ONLY						
		• DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MD	7/5/2001	<h1>OUTLINE</h1>		
		• TOLERANCES:				SIZE CAGE CODE DWG NO <div style="font-size: 2em; font-weight: bold;">10379-505</div>		
		ANGLES ± 2° 2 PL ± .002 [13] 3 PL ± .005 [38]		QA				
		• REMOVE ALL BURRS AND SHARP EDGES R.25 MAX						
		• CONCENTRICITY MACHINED DIA. .002 FIM						
		• MACHINE TOOL REGISTRATION .002 MAX		RLSE	DATE	SCALE <div style="font-size: 2em; font-weight: bold;">1:1</div>		SHEET 1 OF 1
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 						
APPLICATION								

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