

PRODUCT DATA SHEET

C5100

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:	0.01 - 250 MHz
Power:	500 W CW
Coupling:	40 ± 1.0 dB Max.
Insertion Loss:	0.4 dB Max.
Flatness:	± 0.75 dB Max.
VSWR (ML):	1.25:1 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:	10.5 x 3.0 x 2.0"

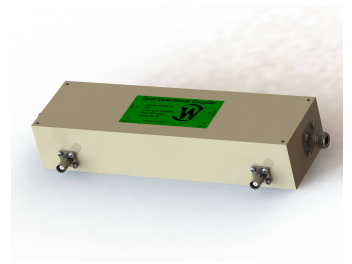
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5100-10	N Female	N Female	N Female	N Female
C5100-12	N Female	N Female	SMA	SMA
C5100-13	N Female	N Female	BNC	BNC
C5100-20	7/16 Female	7/16 Female	N Female	SMA
C5100-614	N Female	7/16 Female	SMA	SMA
C5100-727	7/16 Male	7/16 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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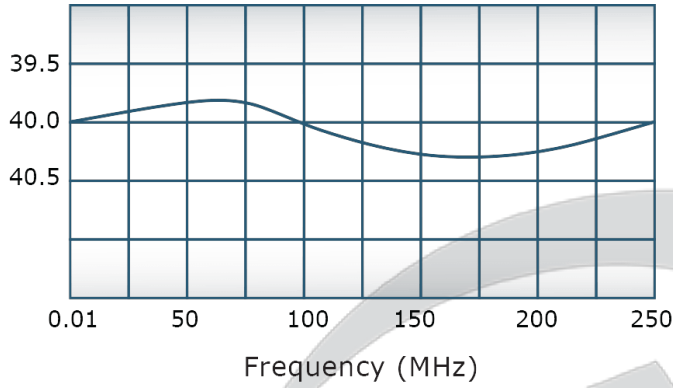


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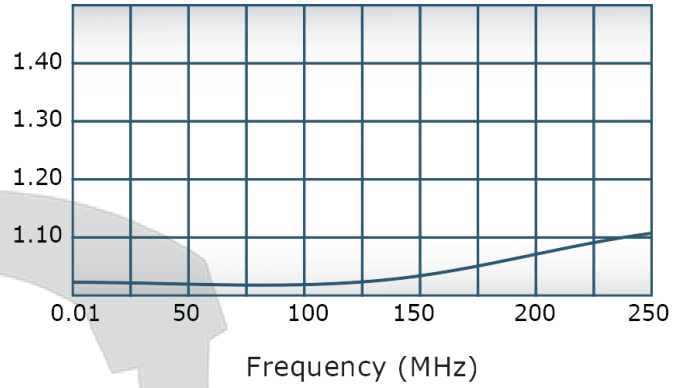
C5100

Performance Data (Specifications subject to change without notice):

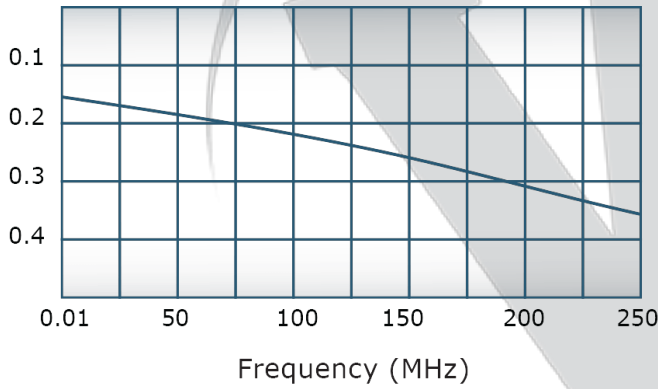
Coupling:



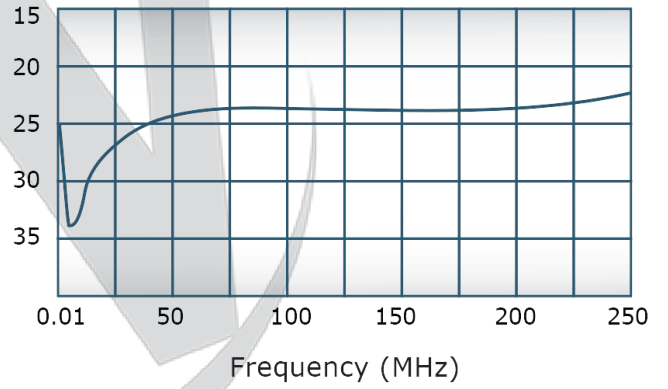
VSWR:



Insertion Loss:



Directivity:



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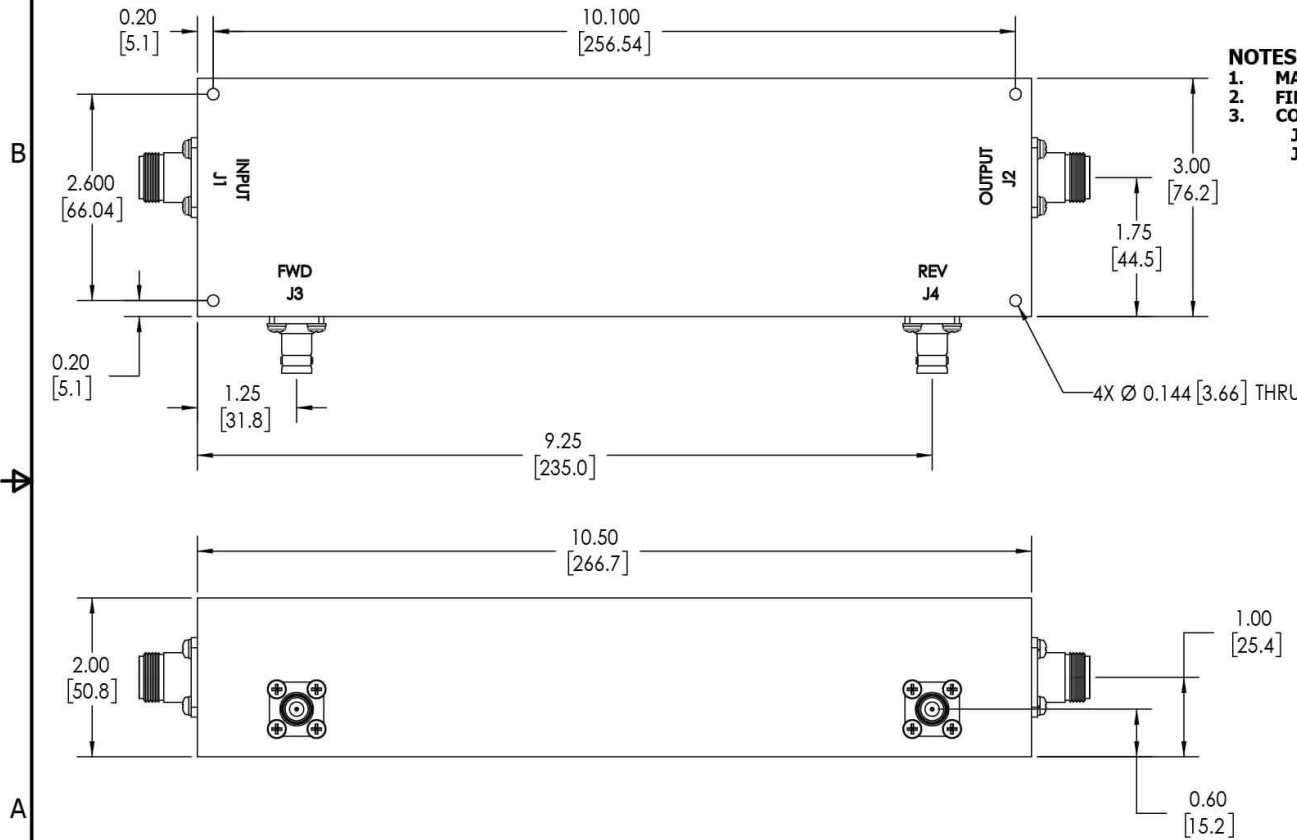
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
 J1-J2: N FEMALE
 J3-J4: BNC FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 PARENTHESES FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		SD	5/13/2019		
ANGLES ± 2° 3 PL ± .005 (1.3) 2 PL ± .015 (38) REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA: .002 FIM MACHINE TOOL MISMATCH .003 MAX		CHK	DATE	TITLE	
APPLICATION		CS	5/13/2019	OUTLINE	
NEXT ASSY	USED ON	ENGR	DATE	SIZE	CAGE CODE
		INFR	DATE	B	10449-500
		QA	DATE	DWG NO	REV
		RLSE	DATE	1:1.5	A
THIRD ANGLE PROJECTION			SCALE	SHEET 1 OF 1	

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