

PRODUCT DATA SHEET

C6102

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.

Electrical Specifications:

Frequency: 2000 - 4000 MHz
Power: 400 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: 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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6102-10	N Female	N Female	N Female	N Female
C6102-12	N Female	N Female	SMA	SMA
C6102-13	N Female	N Female	BNC	BNC
C6102-20*	7/16 Female	7/16 Female	N Female	N Female
C6102-22*	7/16 Female	7/16 Female	SMA	SMA
C6102-23*	7/16 Female	7/16 Female	BNC	BNC
C6102-102	SMA	SMA	SMA	SMA
C6102-302	TNC Female	TNC Female	SMA	SMA
C6102-727*	7/16 Female	7/16 Female	N Female	N Female
C6102-728*	7/16 Male	7/16 Female	SMA	SMA

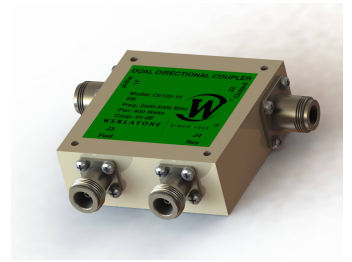
(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



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Model C6102

Connectorized Directional Couplers

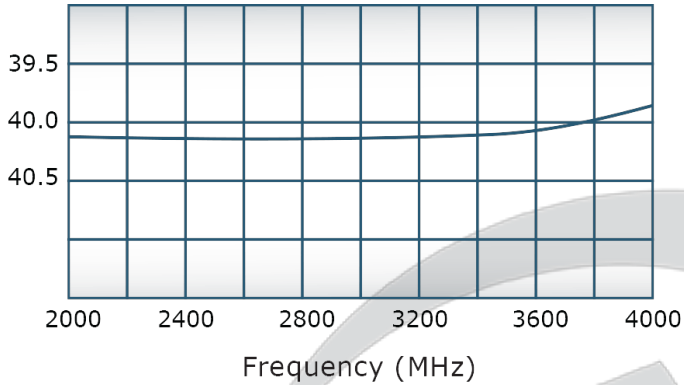


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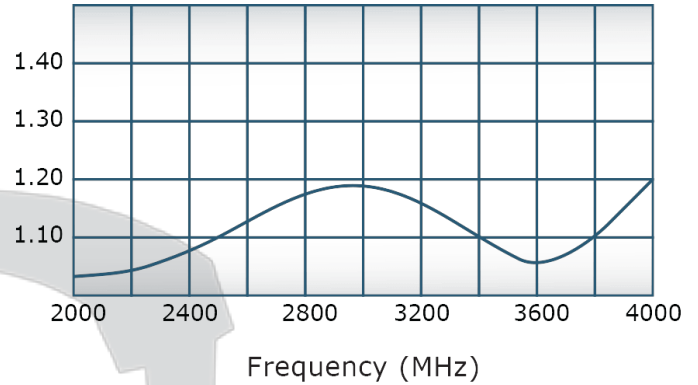
C6102

Performance Data (Specifications subject to change without notice):

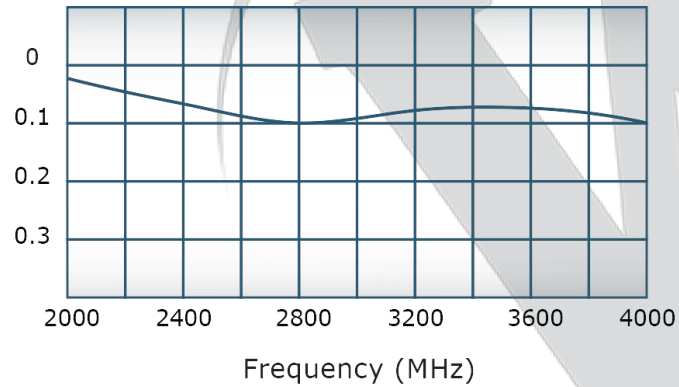
Coupling:



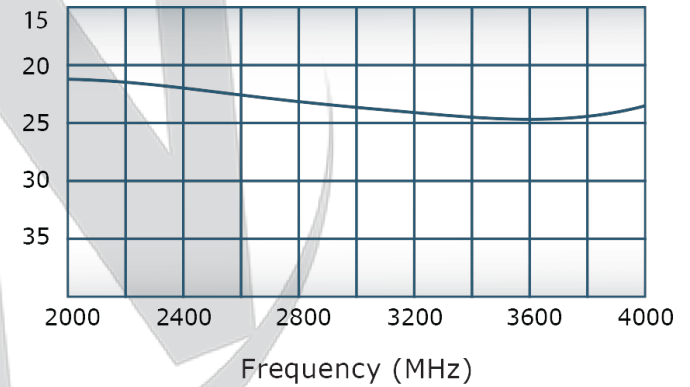
VSWR:



Insertion Loss:



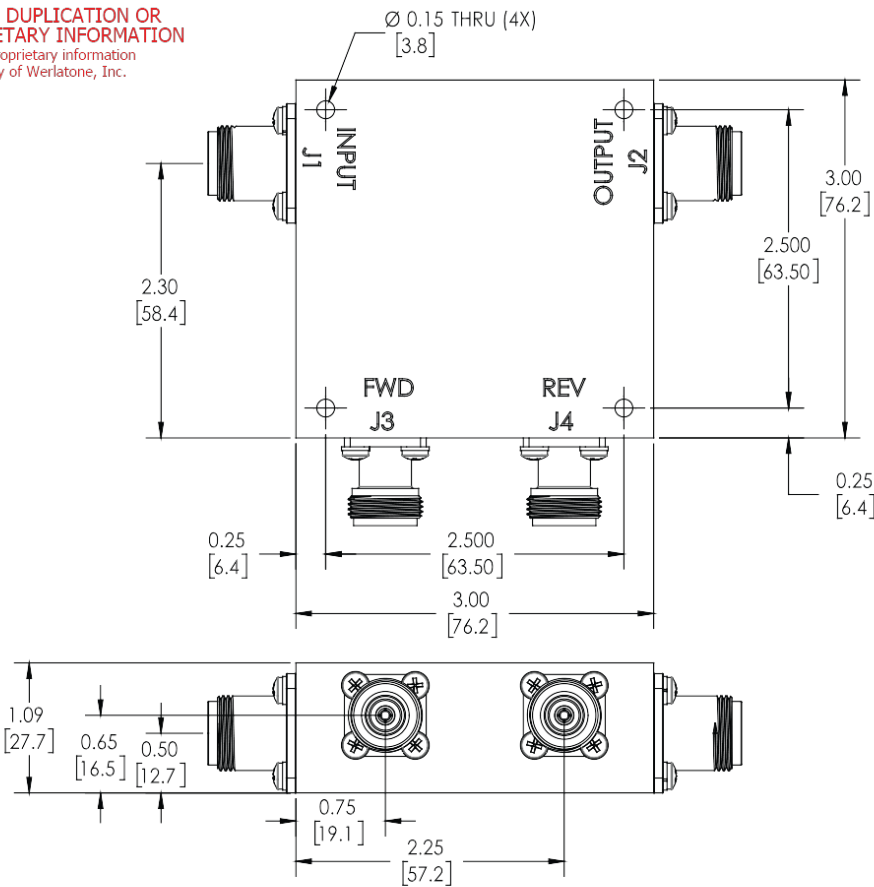
Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED		DWGN	DATE	17 Jon Barrett Rd	
		• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001	Patterson, NY 12563	
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	WERLATONE SINCE 1965	
		• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE		
		• DIMENSIONS ARE IN INCHES		MJ	7/5/2001	TITLE OUTLINE	
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE		
		• TOLERANCES:		QA	DATE	B CAGE CODE DWG NO 10379-505	
		ANGLES: ± 2° 2 PL. ± .015 [1.3]		RLSE	DATE		
		• REMOVE ALL BURS AND SHARP EDGES R.01 MAX				REV A	
		• CONCENTRICITY MACHINED DIA: .002 FIM					
		• MACHINE TOOL MISMATCH: .003 MAX					
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 		SCALE		1:1	
APPLICATION						SHEET 1 OF 1	

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