

## 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:

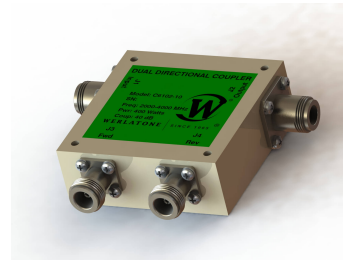
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6102-10	N Female	N Female	N Female	N Female
C6102-12	N Female	N Female	SMA	SMA
C6102-13	N Female	N Female	BNC	BNC
C6102-20*	7/16 Female	7/16 Female	N Female	N Female
C6102-22*	7/16 Female	7/16 Female	SMA	SMA
C6102-23*	7/16 Female	7/16 Female	BNC	BNC
C6102-102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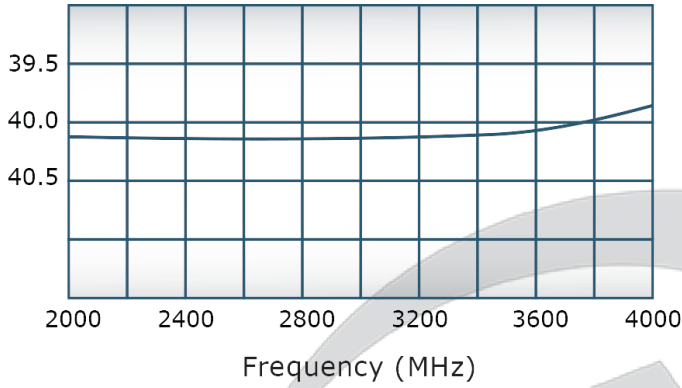


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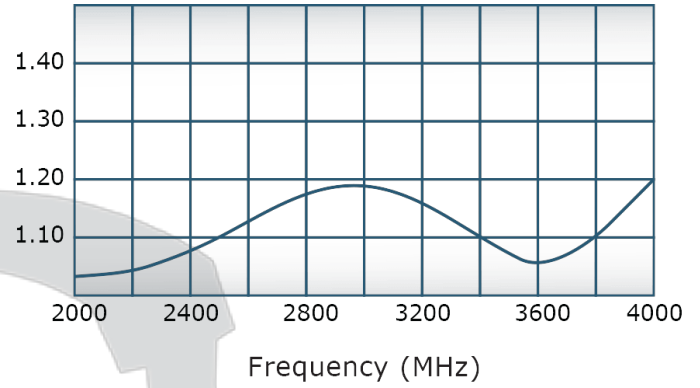
C6102

**Performance Data (Specifications subject to change without notice):**

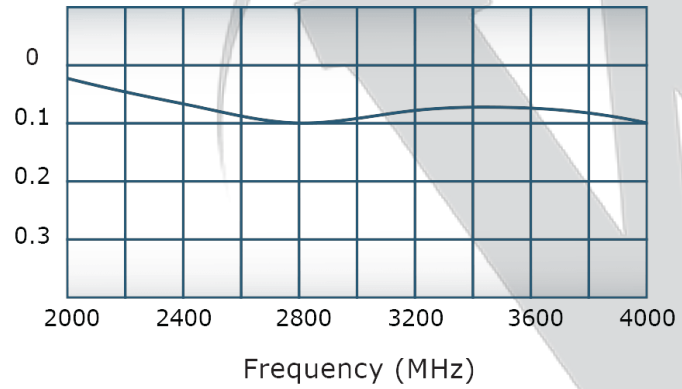
Coupling:



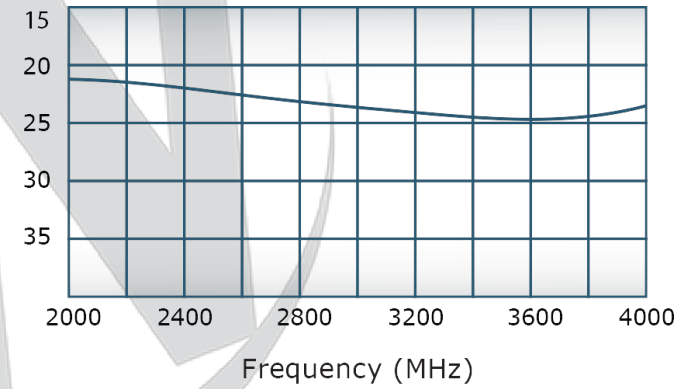
VSWR:



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		OWN	DATE	<b>WERLATONE SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
• INTERPRET DRAWING (AWW MIL-STD-100) • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES: ± 2° 3 PL. ± .005 (1.3) 2 PL. ± .015 (1.3) • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL IMPACT: .003 MAX		CHK	DATE	
NEXT ASSY		ENGR	DATE	TITLE
USED ON		MJ	7/5/2001	<b>OUTLINE</b>
APPLICATION		MFR	DATE	SIZE
THIRD ANGLE PROJECTION		QA	DATE	CAGE CODE
		RELEASE	DATE	DAWG NO
				10379-505
				SCALE
				1:1
				REV
				A
				SHEET 1 OF 1

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