



PRODUCT DATA SHEET

C8060

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 200 - 6000 MHz
 Power: 200 W CW
 Coupling: 20 ± 1.0 dB Max.
 Insertion Loss: 0.55 dB Max. (200-2000 MHz), 1.1 dB Max. (2000-6000 MHz)
 Flatness: ± 1.75 dB Max. (200-2000 MHz), ± 2.25 dB Max. (2000-6000 MHz)
 VSWR (ML): 1.25:1 Max. (200-2000 MHz), 1.40:1 Max. (2000-6000 MHz)
 Directivity: 18 dB Min. (200-2000 MHz), 14 dB Min. (2000-6000 MHz)

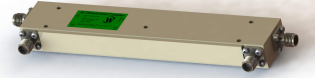
Mechanical Specifications:

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: 4.8 x 0.88 x 0.5"
 Weight: 3.5 oz. / 99 grams

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8060-102	SMA	SMA	SMA	SMA

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.

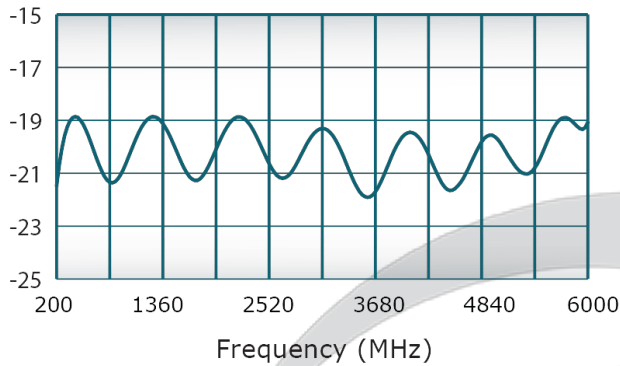


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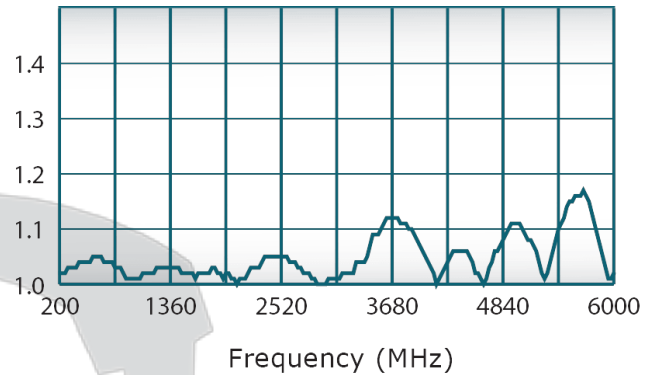
C8060

Performance Data (Specifications subject to change without notice):

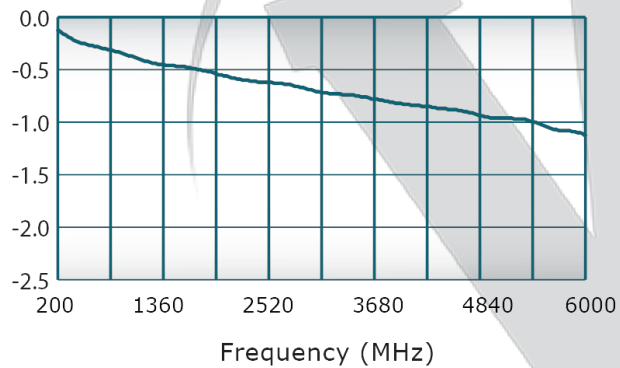
Coupling:



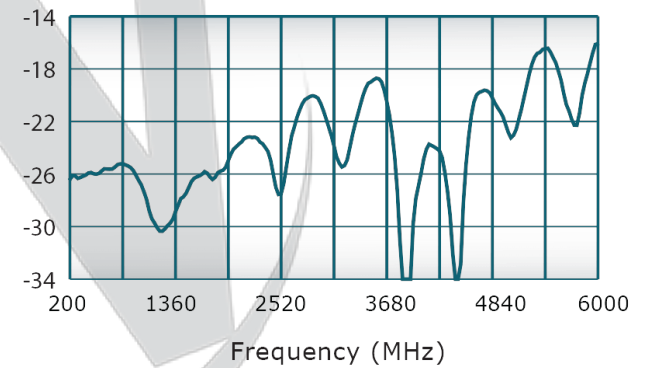
VSWR:



Insertion Loss:



Directivity:

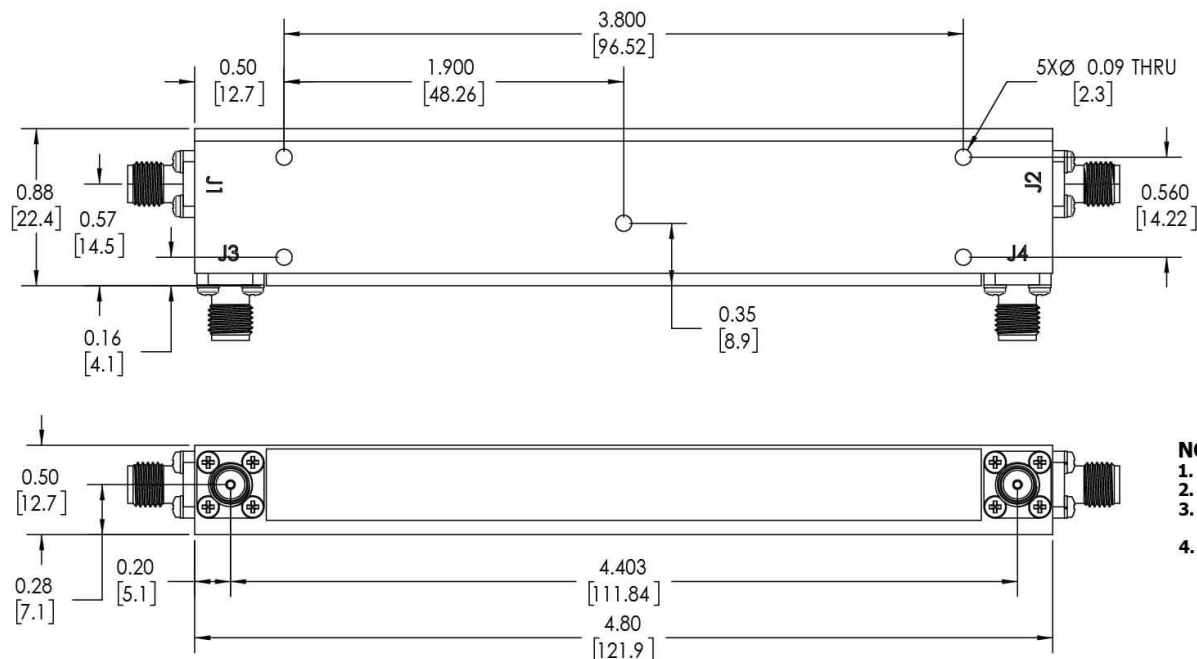


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4750	3/24/09	BW
B	ECN 9696	3/25/19	RB



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1-J4: SMA FEMALE
- J1 - INPUT**
J2 - OUTPUT
J3 - FWD
J4 - REV

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	3/25/2019				
		DIMENSIONS FOR ASSEMBLY PER MIL-STD-100		CHK	DATE	TITLE		OUTLINE	
		PARENTHESES FOR REF ONLY		CS	3/25/2019				
		DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE		CAGE CODE	
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE				
		TOLERANCES:		QA	DATE	DWG NO		REV	
		ANGLES ± 2°		RLSE	DATE				
		3 PL ± .005 [13]				SCALE		1.5:1	
		2 PL ± .015 [38]							
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SHEET		1 OF 1	
		CONCENTRICITY MACHINED DIA. .002 FIM							
		MACHINE TOOL MISMATCH .003 MAX							
NEXT ASSY		USED ON							
APPLICATION		THIRD ANGLE PROJECTION							

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