



## 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:

<b>Model</b>	<b>Input (J1)</b>	<b>Output (J2)</b>	<b>Fwd (J3)</b>	<b>Rev (J4)</b>
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.

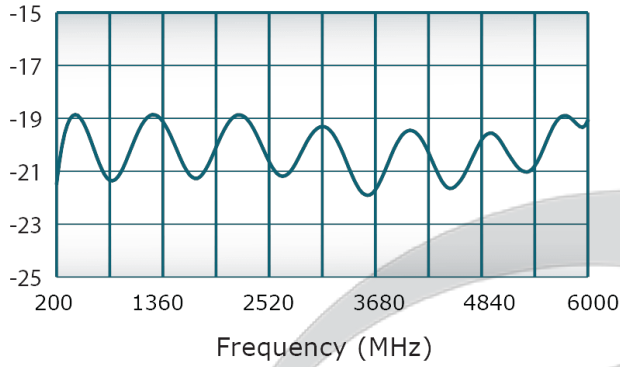
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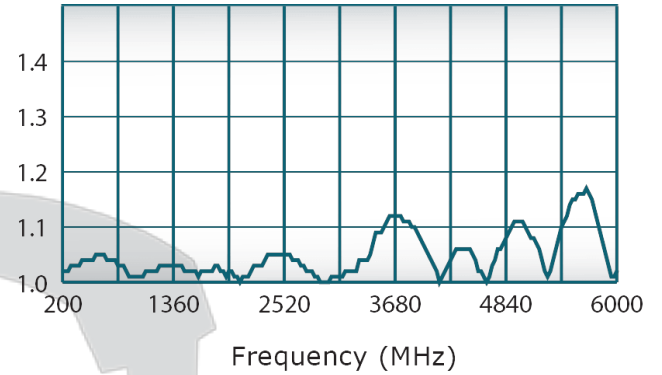


## Performance Data (Specifications subject to change without notice):

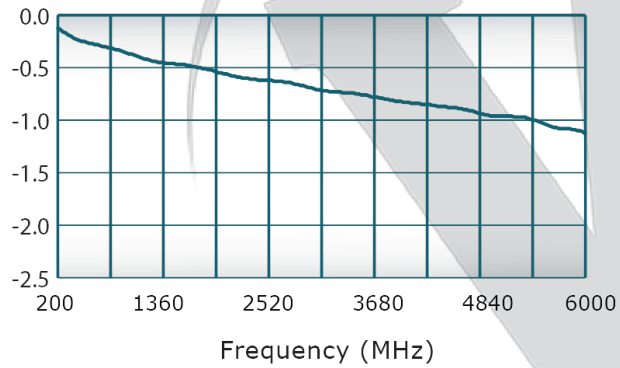
Coupling:



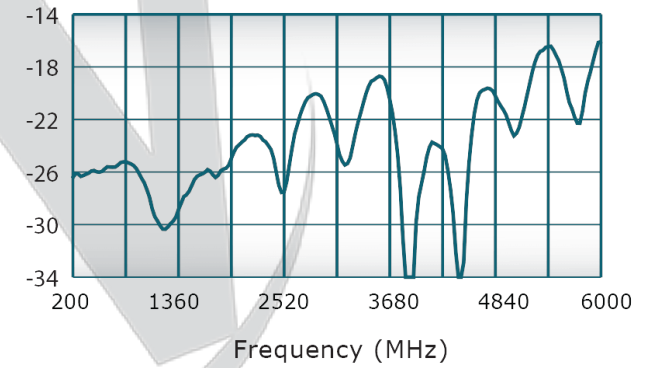
VSWR:



Insertion Loss:



Directivity:



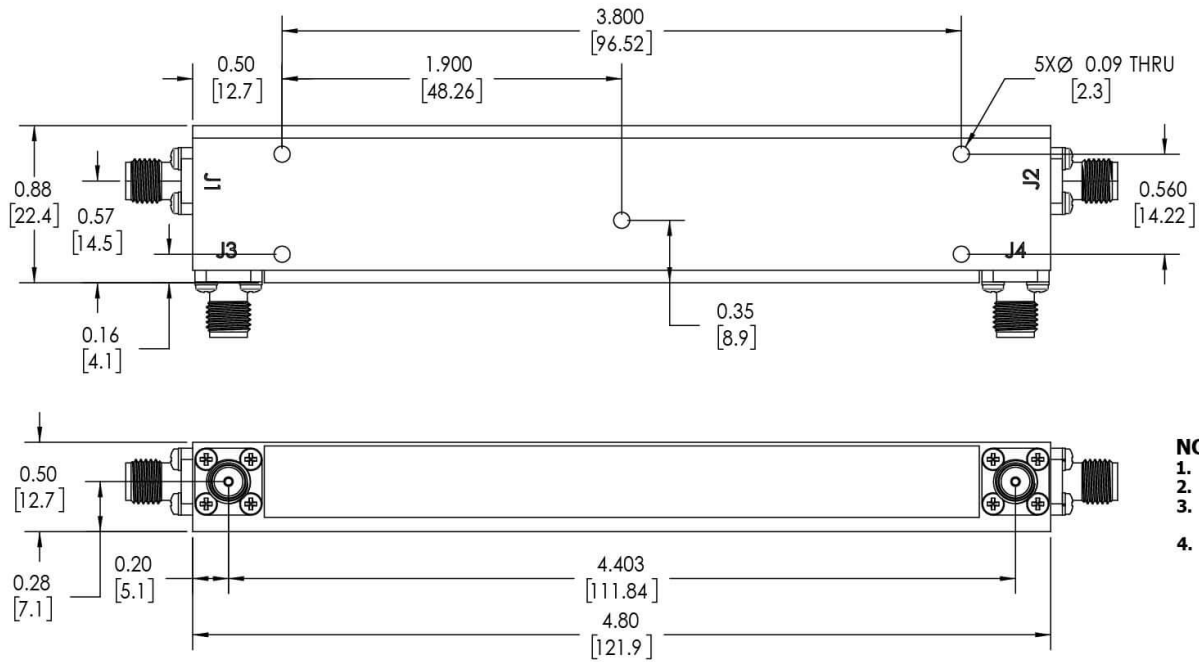
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4750	3/24/09	BW
B	ECN 9696	3/25/19	RB



**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		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	3/25/2019		
TOLERANCES:		CHK	DATE	TITLE	
ANGLES ± 2°		ENGR	DATE	OUTLINE	
3 PL ± .005 [13]		INFR	DATE	SIZE	CAGE CODE
2 PL ± .015 [38]		QA	DATE	B	20496-500
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		RLSE	DATE	DWG NO	REV
CONCENTRICITY MACHINED DIA: .002 FIM				1.5:1	B
MACHINE TOOL MISMATCH .003 MAX				SHEET 1 OF 1	

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