



## PRODUCT DATA SHEET

C8000

**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:	600 - 6000 MHz
Power:	100 W CW
Coupling:	30 ± 1.0 dB Max.
Insertion Loss:	0.4 dB Max.
Flatness:	± 1.0 dB Max.
VSWR (ML):	1.25:1 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:	1.8 x 1.00 x 0.56"

### Connector Configurations:

<b>Model</b>	<b>Input (J1)</b>	<b>Output (J2)</b>	<b>Fwd (J3)</b>	<b>Rev (J4)</b>
C8000-102	SMA Female	SMA Female	SMA Female	SMA 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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

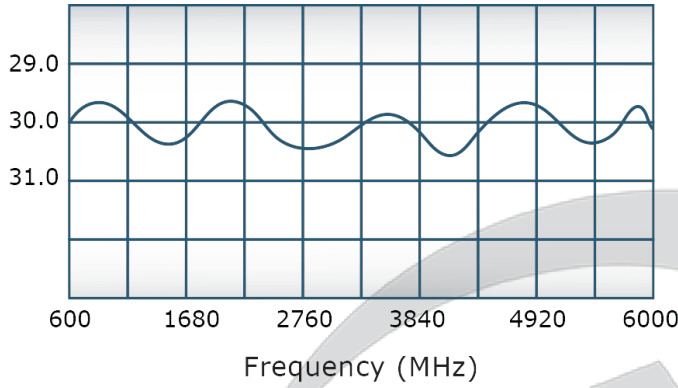


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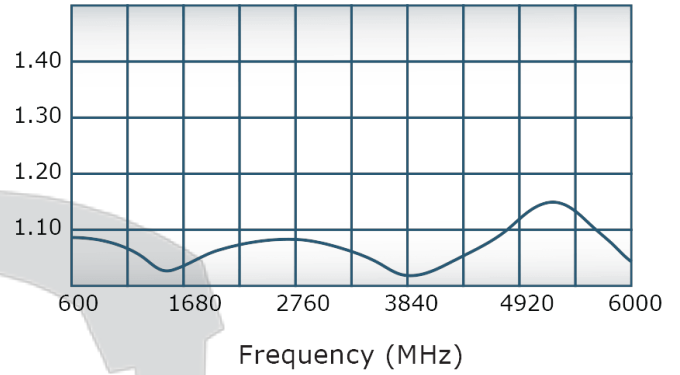
C8000

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

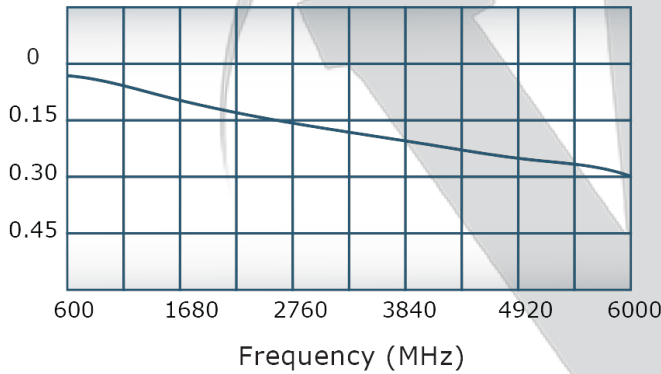
Coupling:



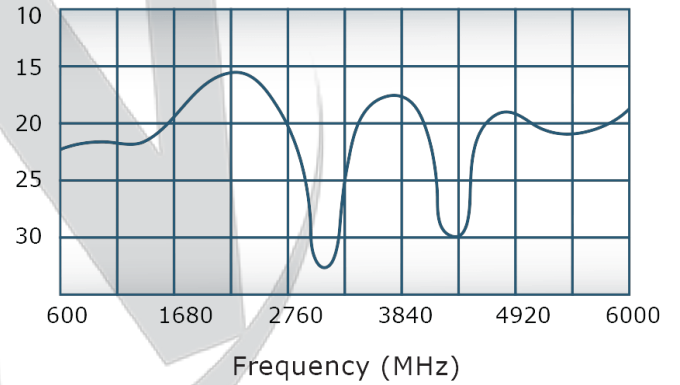
VSWR:



Insertion Loss:



Directivity:



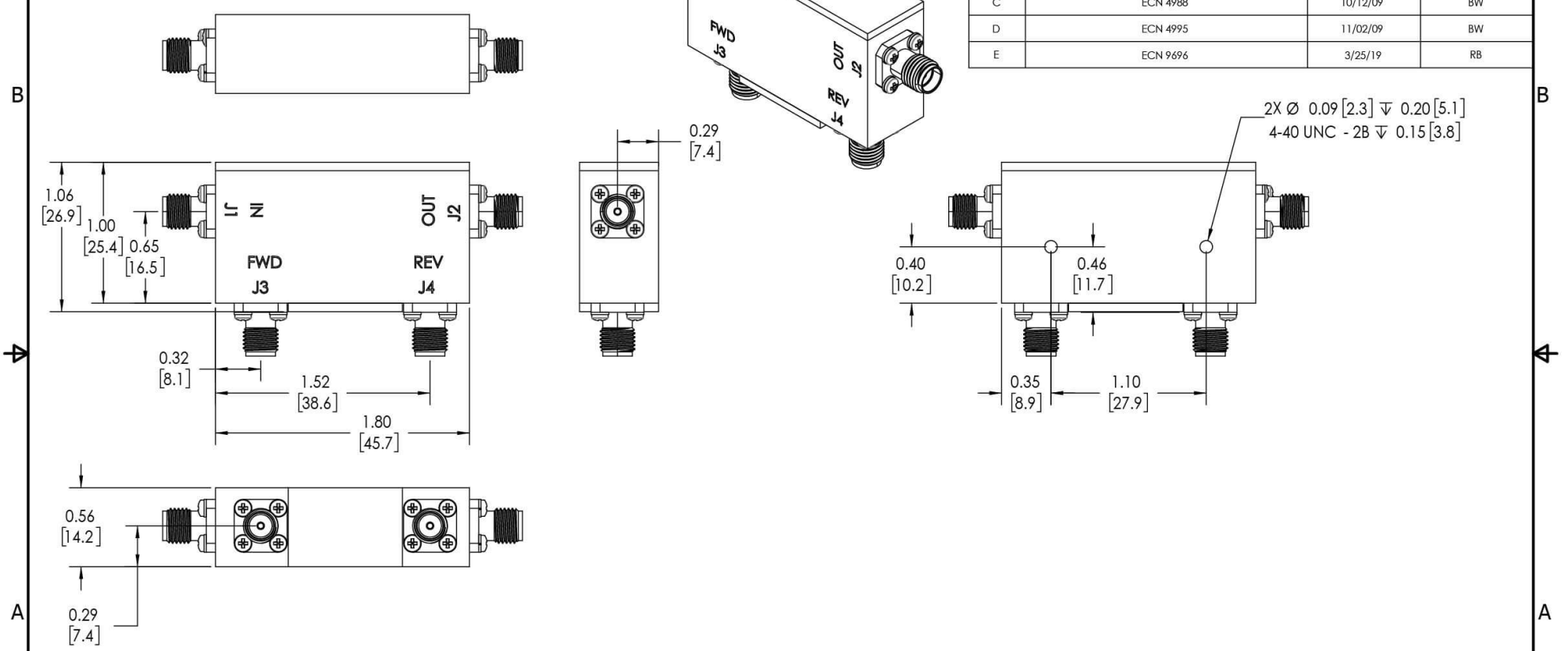
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4505	5/06/08	BW
B	ECN 4534	6/02/08	BW
C	ECN 4988	10/12/09	BW
D	ECN 4995	11/02/09	BW
E	ECN 9696	3/25/19	RB



**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**

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	3/25/2019	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHESES INFO FOR REF ONLY		CS	3/25/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	CAGE CODE
TOLERANCES:		QA	DATE	DWG NO
ANGLES ± 2°		RLSE	DATE	REV
3 PL ± .005 [1.3]				B
2 PL ± .015 [3.8]				20360-500
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				E
CONCENTRICITY MACHINED DIA: .002 FIM				
MACHINE TOOL MISMATCH .003 MAX.				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SCALE
APPLICATION				1.5:1
				SHEET 1 OF 1

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