



## 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:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
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.

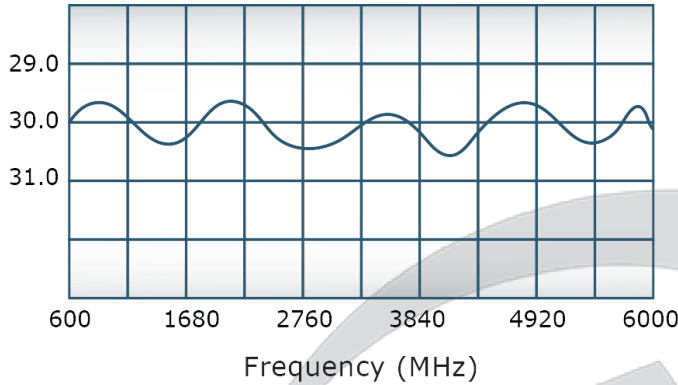


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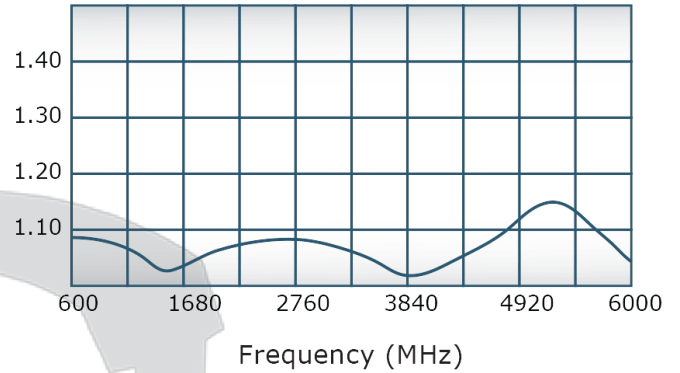
C8000

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

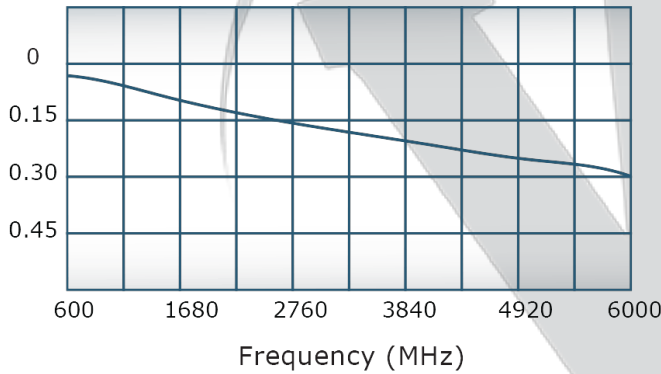
Coupling:



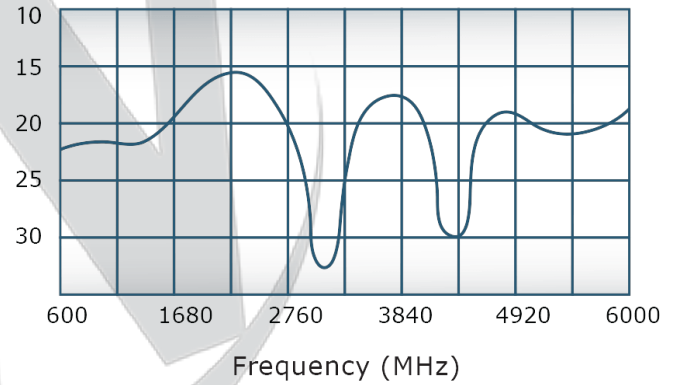
VSWR:



Insertion Loss:



Directivity:



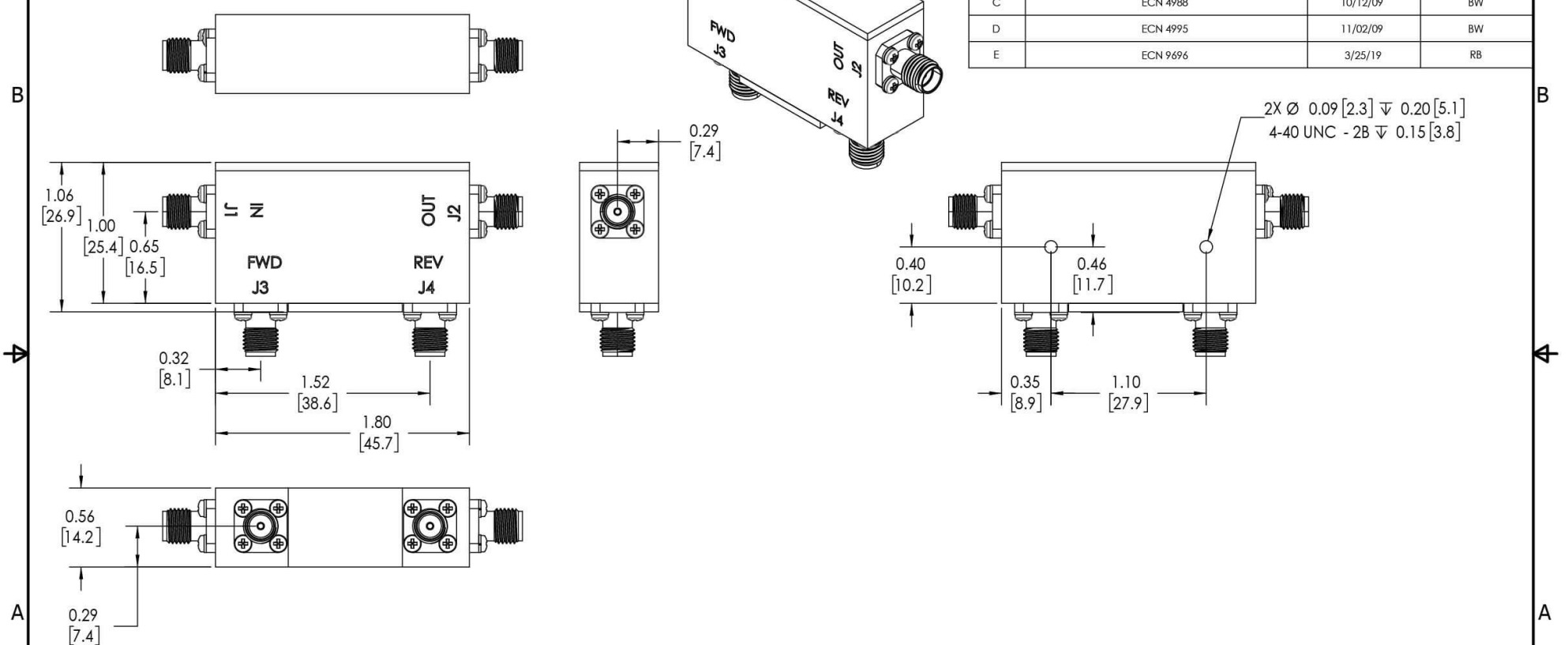
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Werlatone, Inc.

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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
PARENTHEetical INFO FOR REF ONLY		CS	3/25/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	<b>OUTLINE</b>
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	
TOLERANCES:		QA	DATE	SIZE
ANGLES ± 2°		RLSE	DATE	CAGE CODE
3 PL ± .005 [1.3]				DWG NO
2 PL ± .015 [3.8]				REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				B
CONCENTRICITY MACHINED DIA: .002 FIM				20360-500
MACHINE TOOL MISMATCH .003 MAX.				E
NEXT ASSY	USED ON	APPLICATION	THIRD ANGLE PROJECTION	SCALE
				1.5:1
				SHEET 1 OF 1

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