
**PRODUCT DATA SHEET**
**C8056**

**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: 500 - 3500 MHz  
Power: 100 W CW  
Coupling:  $30 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.8$  dB Max.  
Insertion Loss: 0.3 dB Max.  
VSWR (ML): 1.20:1 Max.  
Directivity: 20 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: 1.34 x 1.01 x 0.57"

**Port Configurations:**

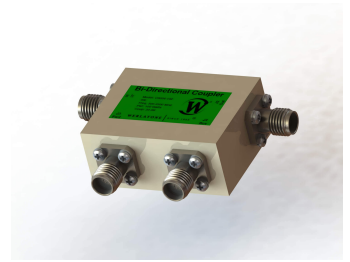
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8056-102	SMA	SMA	SMA	SMA

**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.



# WERLATONE

Model C8056

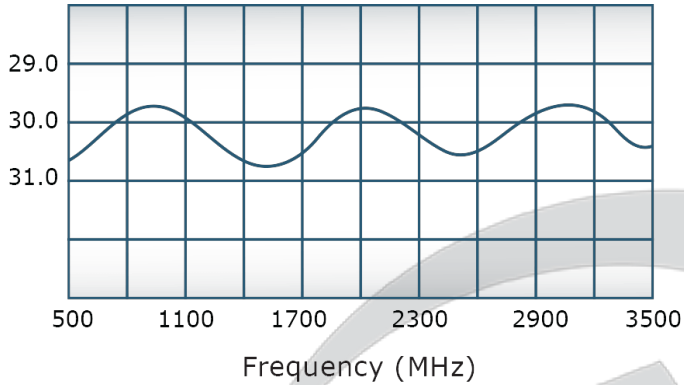


## PRODUCT DATA SHEET

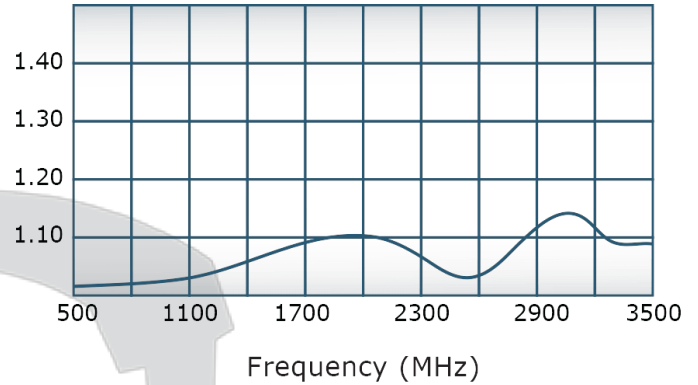
C8056

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

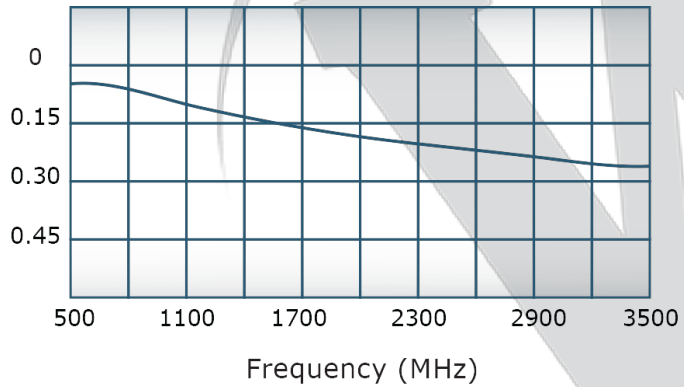
Coupling:



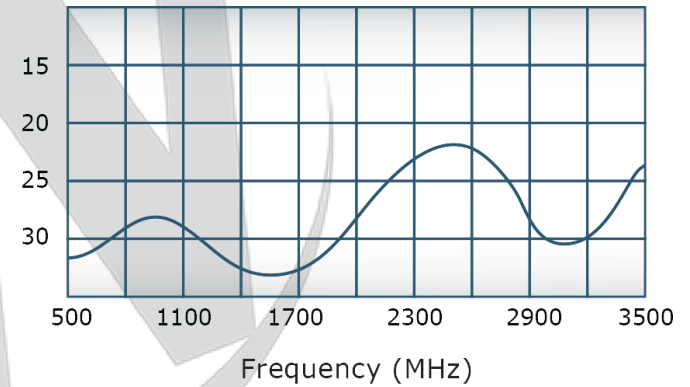
VSWR:



Insertion Loss:



Directivity:

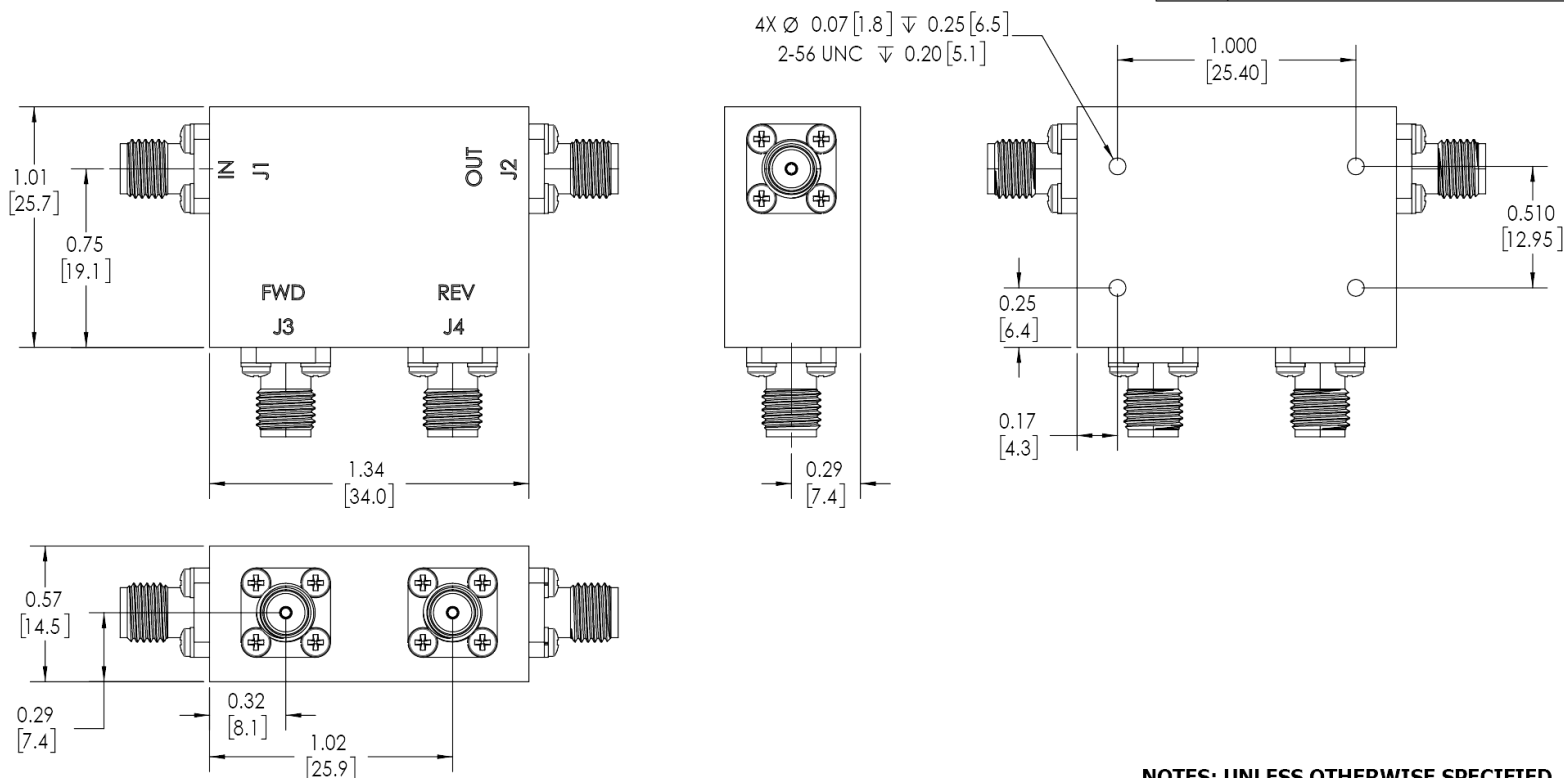


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 5102	3/17/2010	BW
B	ECN 9696	9/27/2019	RB



- 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		SD	DATE	W		WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE	CS		9/27/2019		TITLE	
DIMENSIONS PER ASME Y14.5M-2009		ENGR	DATE	INPR		DATE		SIZE	
PARENTHESES FOR REF ONLY		QA	DATE	RLSE		DATE		CAGE CODE	
DIMENSIONS ARE IN INCHES		APPLICATION		THIRD ANGLE PROJECTION		SCALE		DWG NO.	
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		NEXT ASSY		USED ON		B		20383-500	
TOLERANCES:		APPLICATION		THIRD ANGLE PROJECTION		2:1		REV	
ANGLES ± 2°		APPLICATION		THIRD ANGLE PROJECTION		2:1		B	
3 PL ± .005 [13]		APPLICATION		THIRD ANGLE PROJECTION		2:1		B	
2 PL ± .015 [38]		APPLICATION		THIRD ANGLE PROJECTION		2:1		B	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		APPLICATION		THIRD ANGLE PROJECTION		2:1		B	
CONCENTRICITY MACHINED DIA. .002 FIM		APPLICATION		THIRD ANGLE PROJECTION		2:1		B	
MACHINE TOOL MATCH .003 FIM		APPLICATION		THIRD ANGLE PROJECTION		2:1		B	

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