


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)

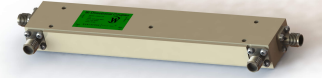
Mechanical Specifications:

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:

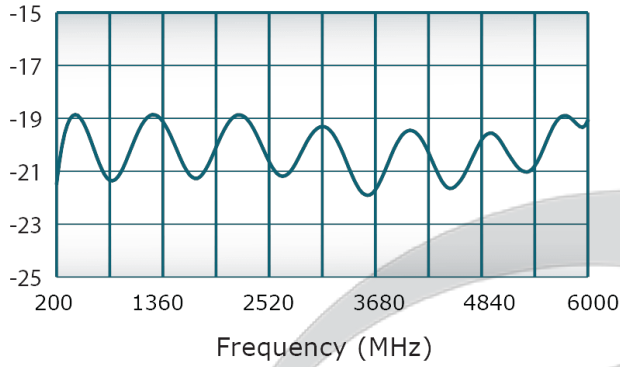
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8060-102	SMA	SMA	SMA	SMA

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.

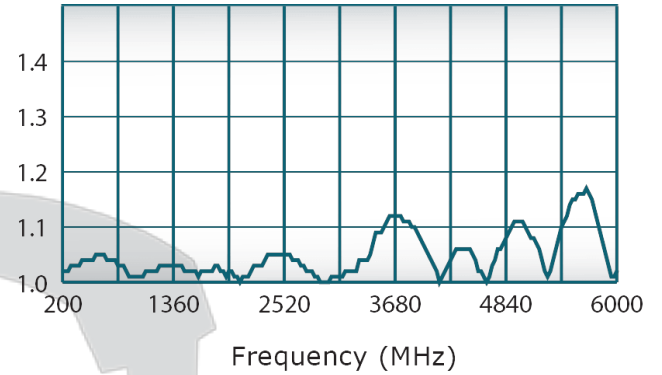


Performance Data (Specifications subject to change without notice):

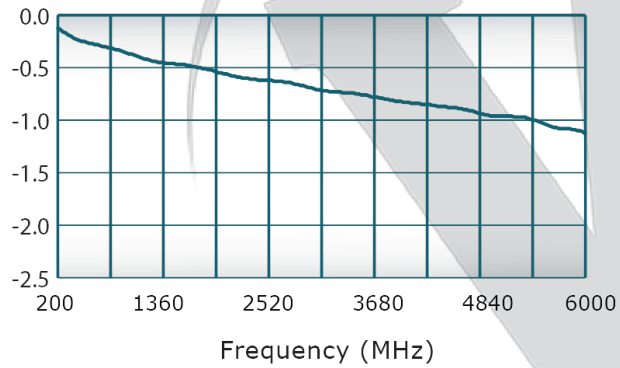
Coupling:



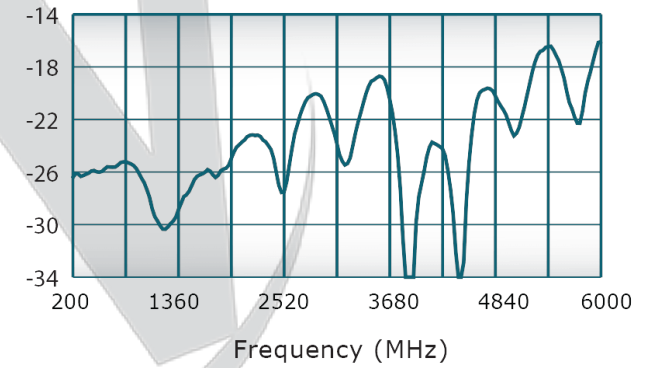
VSWR:



Insertion Loss:



Directivity:



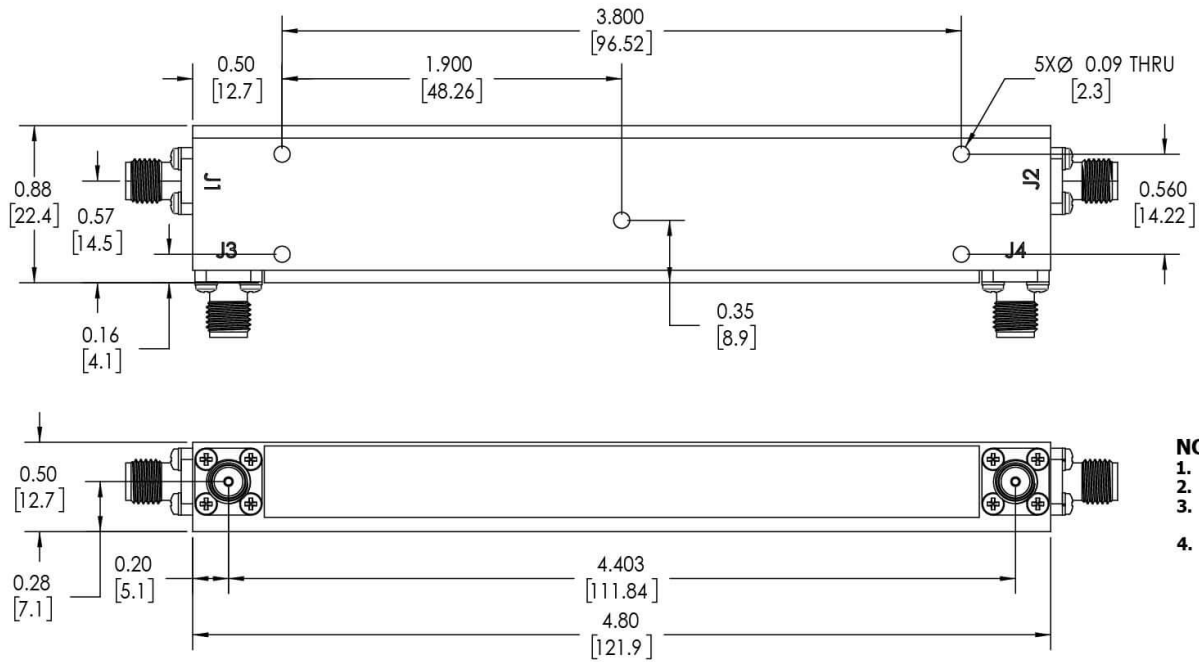
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Werlatone, Inc.

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 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° 3 PL ± .005 [13] 2 PL ± .015 [38]		CS	3/25/2019	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA: .002 FIM MACHINE TOOL MISMATCH .003 MAX.		ENGR	DATE	OUTLINE
NEXT ASSY	USED ON	INFR	DATE	SIZE
		QA	DATE	CAGE CODE
		RLSE	DATE	DWG NO
APPLICATION	THIRD ANGLE PROJECTION			REV
				B
				20496-500
				B
				SCALE
				1.5:1
				SHEET 1 OF 1

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