

PRODUCT DATA SHEET

C8076

4-Port Dual Directional Coupler employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 800 - 3000 MHz
Power: 600 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.25 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8076-10	N Female	N Female	N Female	N Female
C8076-12	N Female	N Female	SMA	SMA
C8076-20*	7/16 Female	7/16 Female	N Female	N Female
C8076-22*	7/16 Female	7/16 Female	SMA	SMA
C8076-43	SC Female	SC Female	SMA	SMA
C8076-51	C Female	C Female	N Female	N Female
C8076-714	N Male	N Female	N Female	N Female
C8076-727*	7/16 Male	7/16 Female	N Female	N Female

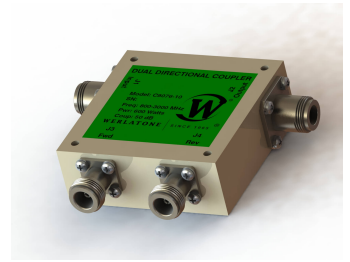
*Starred options are 3.0 x 3.0 x 1.59"



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Model C8076

Connectorized Directional Couplers

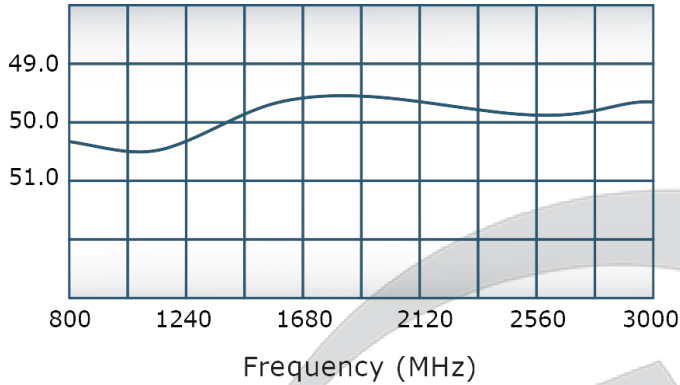


PRODUCT DATA SHEET

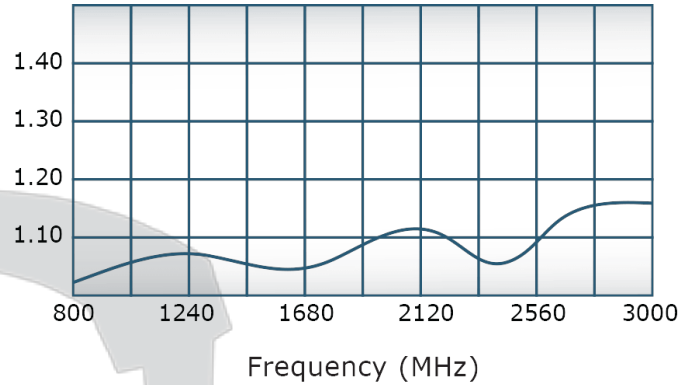
C8076

Performance Data (Specifications subject to change without notice):

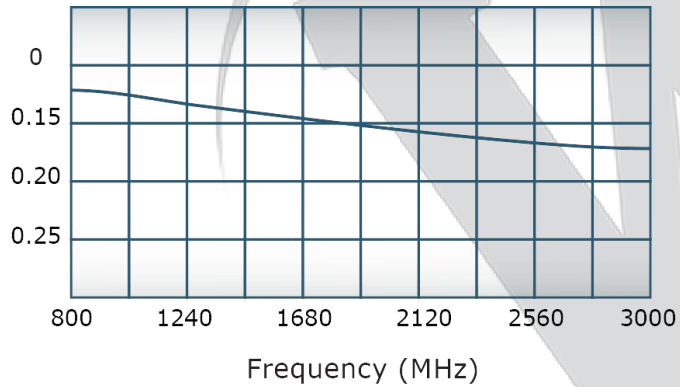
Coupling:



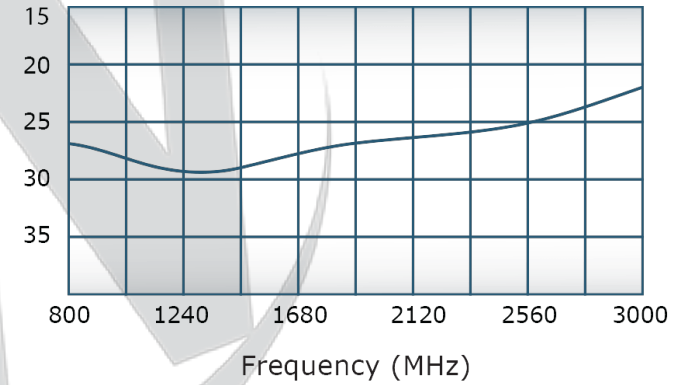
VSWR:



Insertion Loss:



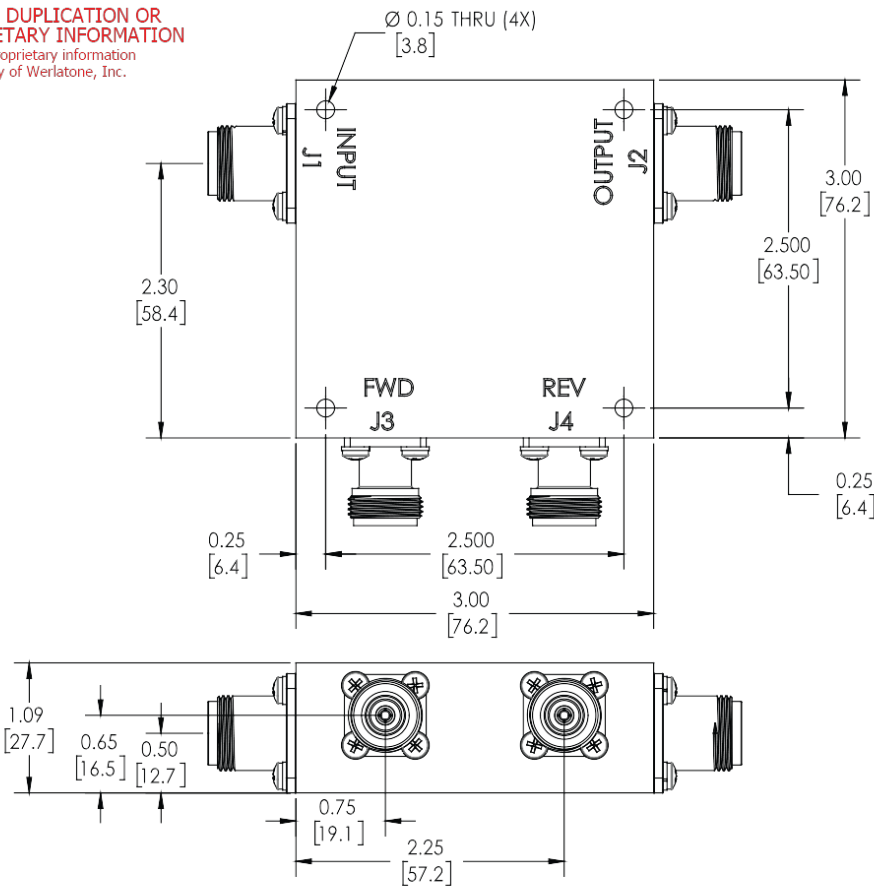
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

UNLESS OTHERWISE SPECIFIED			
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	OWN	DATE	7/5/2001
• DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE	
• PARENTHESES FOR REF ONLY	ENGR	DATE	
• DIMENSIONS ARE IN INCHES	MJ	DATE	7/5/2001
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	MPGR	DATE	
• TOLERANCES:	QA	DATE	
ANGLES: ± 2°	RLSE	DATE	
2 PL. ± .005 [1.3]			
2 PL. ± .015 [3.8]			
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
• CONCENTRICITY MACHINED DIA: .002 FIM			
• MACHINE TOOL MISMATCH: .003 MAX			
NEXT ASSY	USED ON		
APPLICATION	THIRD ANGLE PROJECTION		

WERLATONE SINCE 1965			
17 Jon Barrett Rd Patterson, NY 12563			
TITLE			
OUTLINE			
SIZE	CAGE CODE	DAWG NO	REV
B		10379-505	A
SCALE	1:1		
SHEET 1 OF 1			

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