

PRODUCT DATA SHEET

C5044

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: 100 - 1000 MHz
Power: 2000 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.15 dB Max.
Flatness: ± 0.6 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: 3.0 X 3.0 X 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5044-10	N Female	N Female	N Female	N Female
C5044-12	N Female	N Female	SMA	SMA
C5044-13	N Female	N Female	BNC	BNC
C5044-20*	7/16 Female	7/16 Female	N Female	N Female
C5044-22*	7/16 Female	7/16 Female	SMA	SMA
C5044-23*	7/16 Female	7/16 Female	BNC	BNC
C5044-102	SMA	SMA	SMA	SMA
C5044-627*	7/16 Female	7/16 Male	N Female	N Female
C5044-712	N Male	N Female	SMA	SMA
C5044-714	N Male	N Female	N Female	N Female
C5044-727*	7/16 Male	7/16 Female	N Female	N Female
C5044-728*	7/16 Male	7/16 Female	SMA	SMA

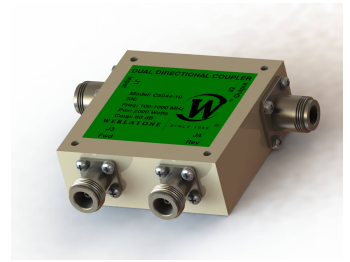
*Starred options are 3.0 x 3.0 x 1.59"



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Model C5044

Connectorized Directional Couplers

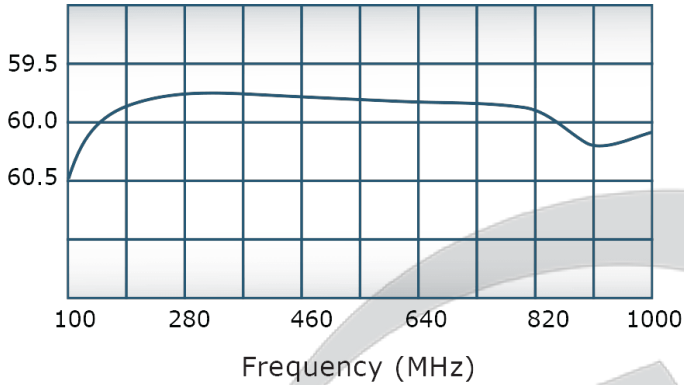


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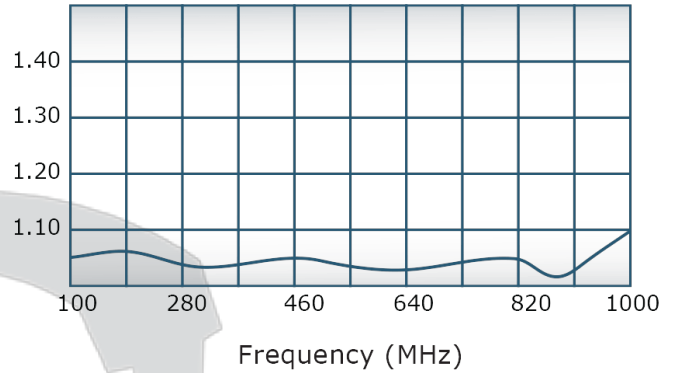
C5044

Performance Data (Specifications subject to change without notice):

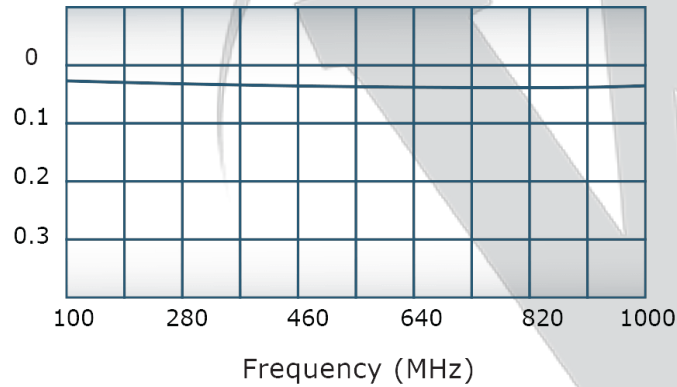
Coupling:



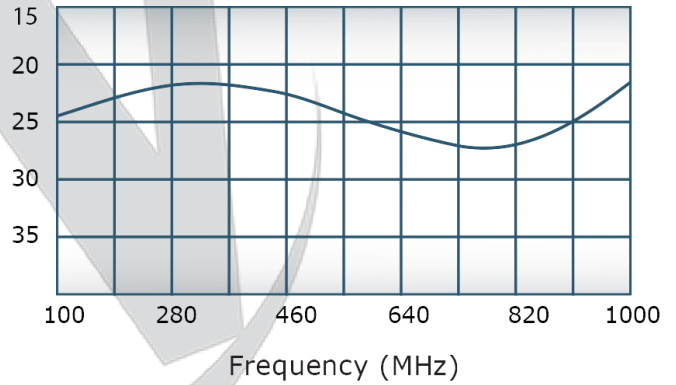
VSWR:



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

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL 5541F TYPE I CLASS 3 (YELLOW IRIDITE)

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12568			
NEXT ASSY USED ON	APPLICATION	<ul style="list-style-type: none">• INTERPRET DRAWING AS PER MIL-STD-100• DIMENSIONING PER ASME Y14.5-2009• DIMENSIONAL INFO FOR REF ONLY• DIMENSIONS ARE IN INCHES• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES• TOLERANCES:<ul style="list-style-type: none">ANGLES ± .2°3 PL ± .005 [13]2 PL ± .003 [18]• REMOVE ALL MARKS AND SHARP EDGES R.01 MAX• CONDUCTIVITY MACHINED SUR. 402 FPM• MACHINE TOOL, REWORKING 402 FPM		RH	7/5/2001		OUTLINE SIZE CAGE CODE DWG NO <div>10379-505</div>	R#	SHEET 1 OF 1	
				CHK	DATE					TITLE
				BNGR	7/5/2001					
				MJ	DATE					
				QA	DATE					
				RLSE	DATE					
		THIRD ANGLE PROJECTION				SCALE	1:1			

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