

PRODUCT DATA SHEET

C8429

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 - 500 MHz
 Power: 200 W CW
 Coupling: 50 ± 1.0 dB Max.
 Insertion Loss: 0.1 dB Max.
 Flatness: ± 0.3 dB Max.
 VSWR (ML): 1.20:1 Max.
 Directivity: 20 dB Min.

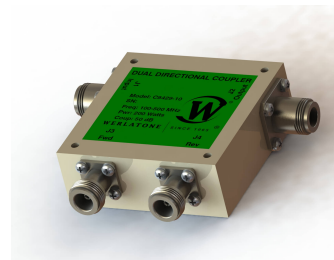
Mechanical Specifications:

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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8429-10	N Female	N Female	N Female	N Female
C8429-12	N Female	N Female	SMA	SMA
C8429-13	N Female	N Female	BNC	BNC
C8429-16	N Male	N Male	SMA	SMA
C8429-20*	7/16 Female	7/16 Female	N Female	N Female
C8429-22*	7/16 Female	7/16 Female	SMA	SMA
C8429-23*	7/16 Femae	7/16 Female	BNC	BNC
C8429-102	SMA	SMA	SMA	SMA

(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")

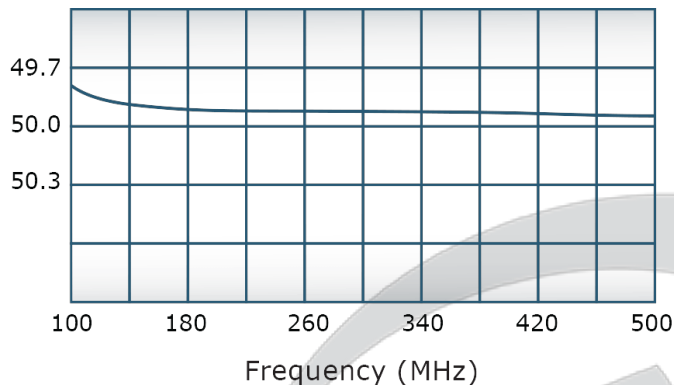


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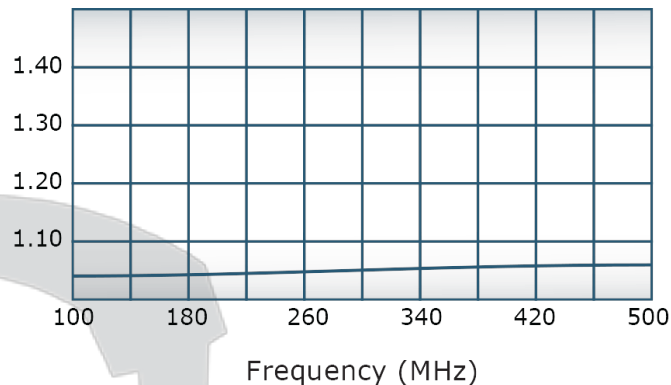
C8429

Performance Data (Specifications subject to change without notice):

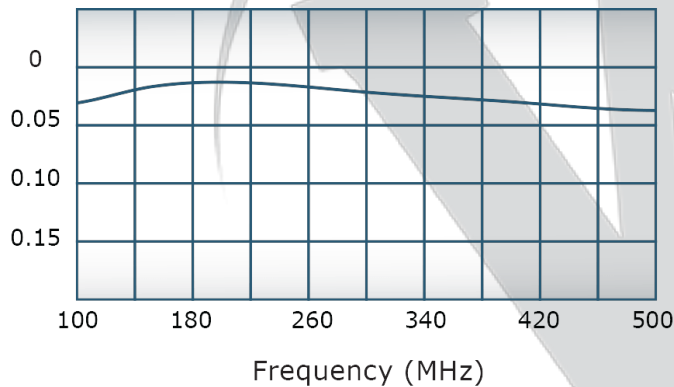
Coupling:



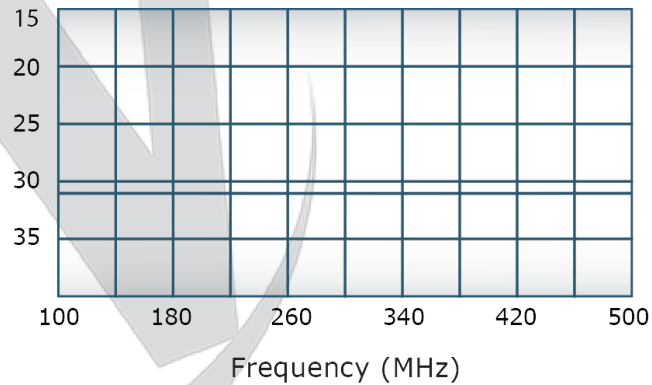
VSWR:



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	<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 ± °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 302 MAX		RH	7/5/2001		OUTLINE SIZE CAGE CODE DWG NO <div>10379-505</div>	R#
		CHK	DATE	TITLE				
		BNGR	7/5/2001					
				MJ				
				QA	DATE			
APPLICATION		THIRD ANGLE PROJECTION 		RLSE	DATE	SCALE	1:1	SHEET 1 OF 1

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