

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.

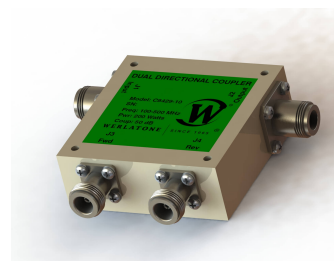
Mechanical Specifications:

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")

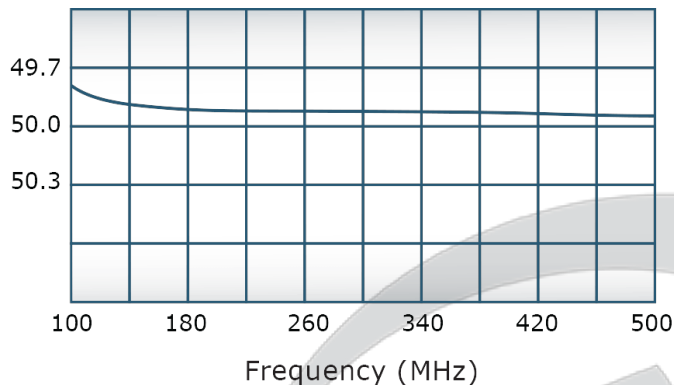


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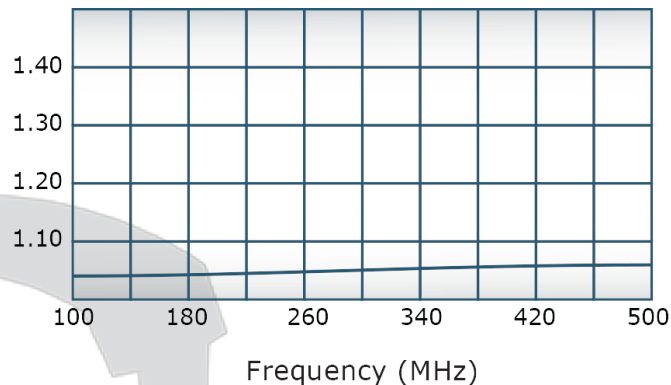
C8429

Performance Data (Specifications subject to change without notice):

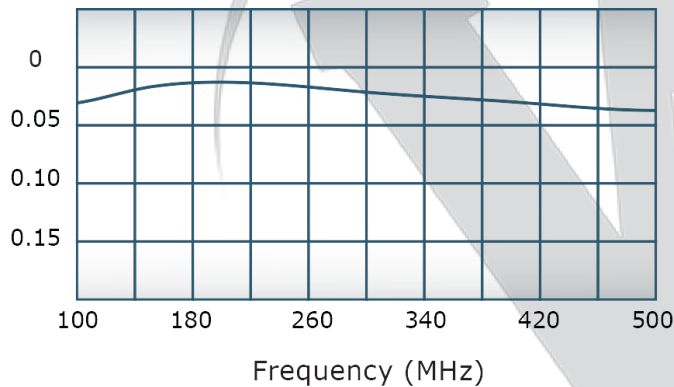
Coupling:



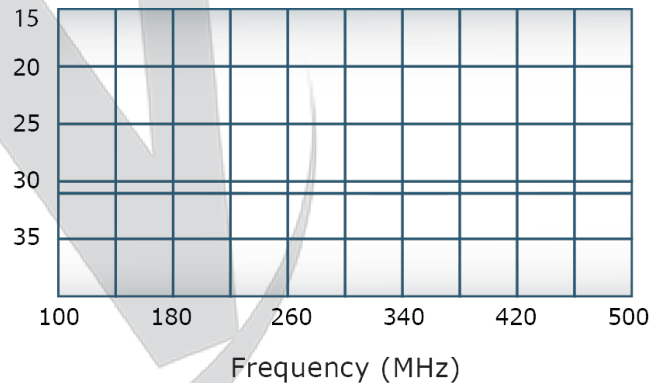
VSWR:



Insertion Loss:



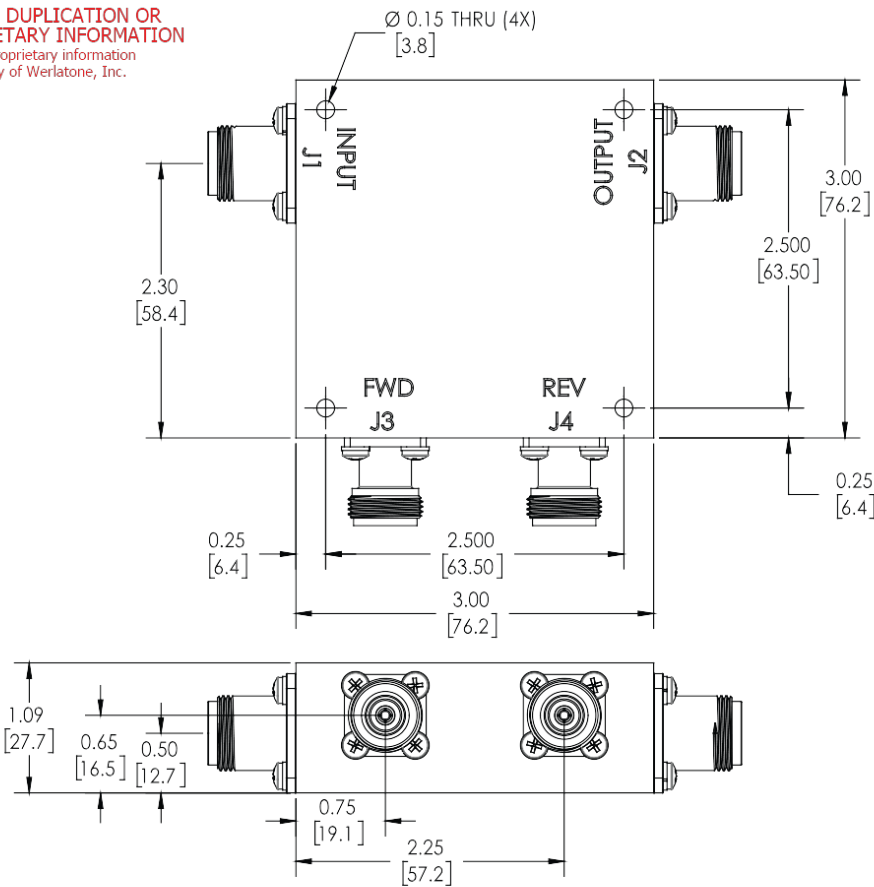
Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- 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 12563	
		• INTERPRET DRAWING JAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: - ANGLES: ± 2° 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		CHK	7/5/2001		
				ENGR	DATE	TITLE OUTLINE SIZE: B CAGE CODE: DWG NO: 10379-505 SCALE: 1:1	
				MFG	7/5/2001		
				QA	DATE	REV: A SHEET 1 OF 1	
				ELSE	DATE		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION					
APPLICATION							

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