
PRODUCT DATA SHEET
C5982

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.

Electrical Specifications:

Frequency: 80 - 1000 MHz
Power: 500 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.3 dB Max.
VSWR (ML): 1.10:1 Max.
Directivity: 20 dB Min.

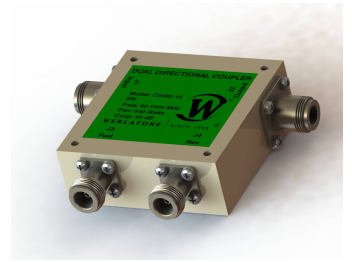
Mechanical Specifications:

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)
C5982-10	N Female	N Female	N Female	N Female
C5982-12	N Female	N Female	SMA	SMA
C5982-13	N Female	N Female	BNC	BNC
C5982-14	N Male	N Male	N Female	N Female
C5982-20*	7/16 Female	7/16 Female	N Female	N Female
C5982-22*	7/16 Female	7/16 Female	SMA	SMA
C5982-23*	7/16 Female	7/16 Female	BNC	BNC
C5982-627*	7/16 Female	7/16 Male	N Female	N Female
C5982-712	N Male	N Female	SMA	SMA
C5982-727*	7/16 Male	7/16 Female	N Female	N Female
C5982-728*	7/16 Male	7/16 Female	SMA	SMA

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

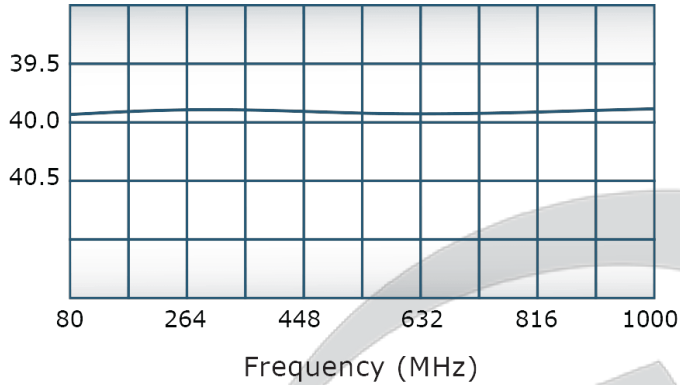


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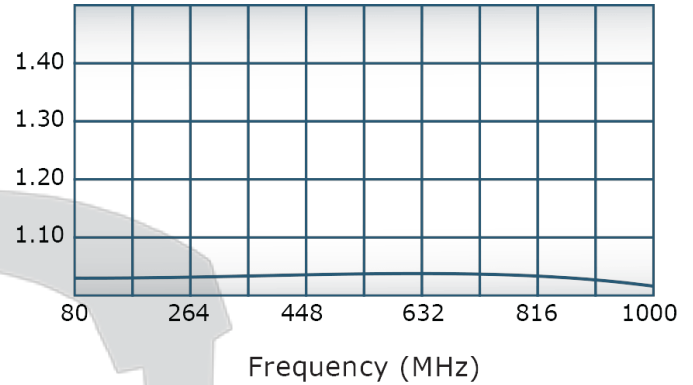
C5982

Performance Data (Specifications subject to change without notice):

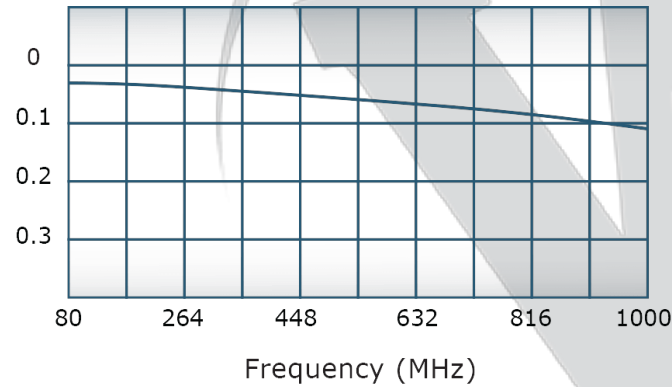
Coupling:



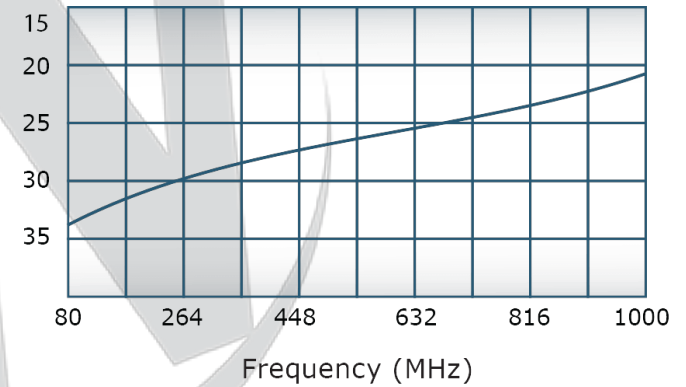
VSWR:



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• CONCENTRICITY MACHINED DIA. .002 FIM• MACHINE TOOL, REPRODUCTION .002 MAX		RH	7/5/2001		OUTLINE SIZE CAGE CODE DWG NO <div>10379-505</div>	R1	SHEET 1 OF 1
		CHK	DATE	TITLE					
		BNGR	7/5/2001						
				M3	DATE				
				QA	DATE				
				RLSE	DATE				
		THIRD ANGLE PROJECTION 		SCALE		1:1			

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