

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

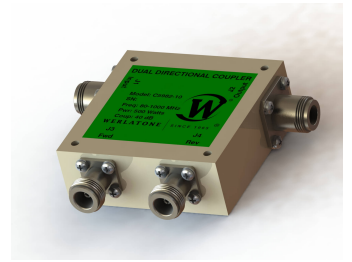
(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



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Model C5982

Connectorized Directional Couplers

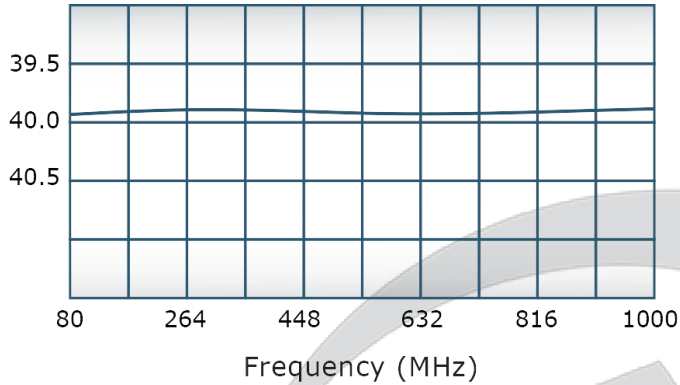


PRODUCT DATA SHEET

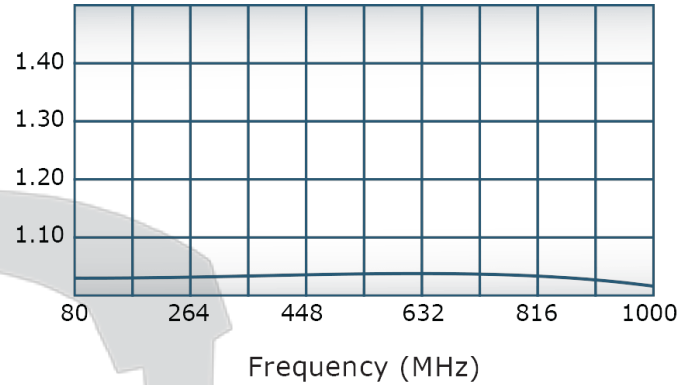
C5982

Performance Data (Specifications subject to change without notice):

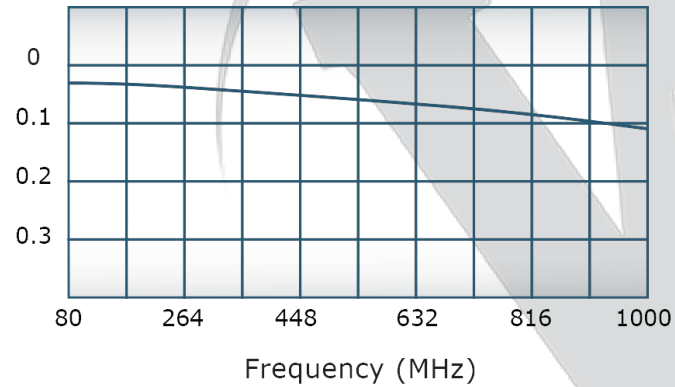
Coupling:



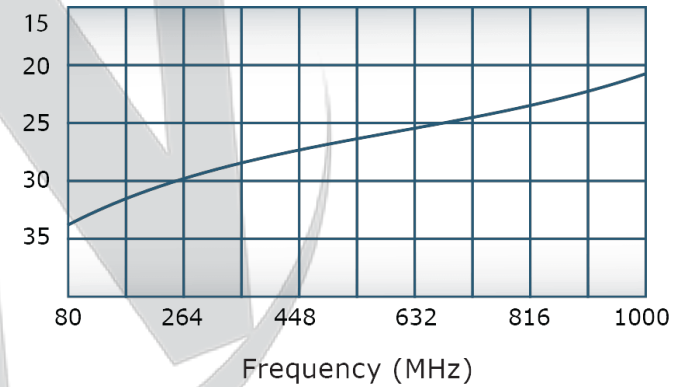
VSWR:



Insertion Loss:



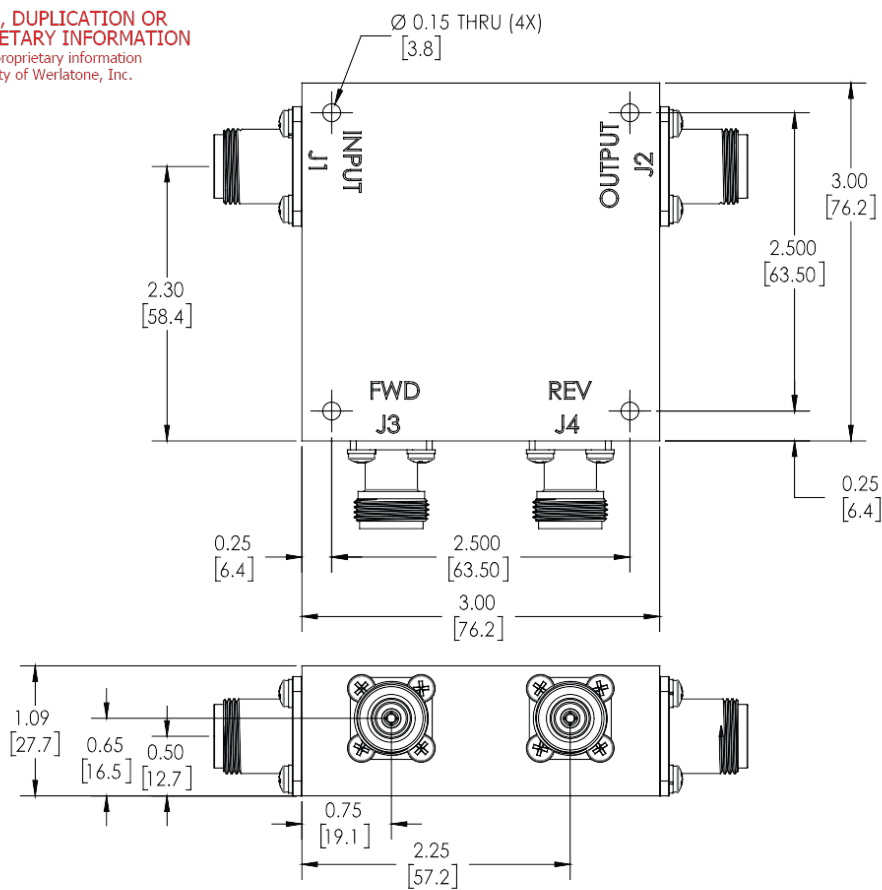
Directivity:



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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		
		• INTERPRET DRAWING AS PER: STD-100 • DIMENSIONING PER: ASME Y14.5-2009 • ARCHITECTURAL INFO FOR KEY ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES: ± 2° 2 PL. ± .002 [13] 3 PL. ± .015 [38] • REMOVE ALL BURS AND SHARP EDGES R.25 MAX • CONCENTRICITY MACHINED DIA. ±.02 FIM • MACHINE TOOL DEFORMATION .002 FIM		RH	7/5/2001		 WERLATONE SINCE 1965		
				CHK	DATE				
				ENGR	DATE				
				MD	7/5/2001				
				APPR	DATE				
				QA					
				RLSE	DATE				
NEXT ASSY USED ON						SIZE CAGE CODE DWG NO B 10379-505			
APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1	

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