



PRODUCT DATA SHEET

C5681

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: 800 - 2800 MHz
Power: 1000 W CW *
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.75 dB Max.
VSWR (ML): 1.30:1 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)
C5681-10	N Female	N Female	N Female	N Female
C5681-12	N Female	N Female	SMA	SMA
C5681-13	N Female	N Female	BNC	BNC
C5681-16	N Male	N Male	SMA	SMA
C5681-20*	7/16 Female	7/16 Female	N Female	N Female
C5681-22*	7/16 Female	7/16 Female	SMA	SMA
C5681-627*	7/16 Female	7/16 Male	N Female	N Female
C5681-712	N Male	N Female	SMA	SMA
C5681-714	N Male	N Female	N Female	N Female
C5681-727*	7/16 Male	7/16 Female	N Female	N Female
C5681-728*	7/16 Male	7/16 Female	SMA	SMA
C5681-7726*	7/16 Male	7/16 Male	N Female	N Female

Unit is de-rated to 500 W CW with N-F mainline connectors.

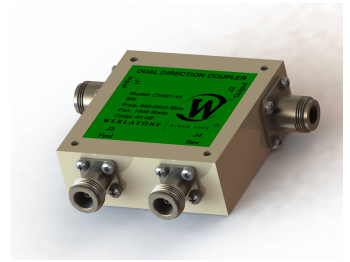
7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59"



WERLATONE

Model C5681

Connectorized Directional Couplers

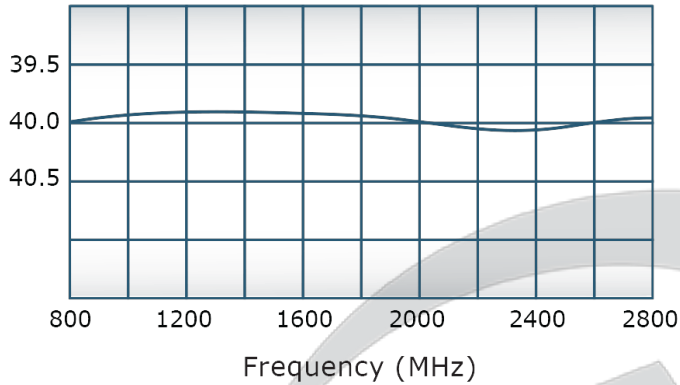


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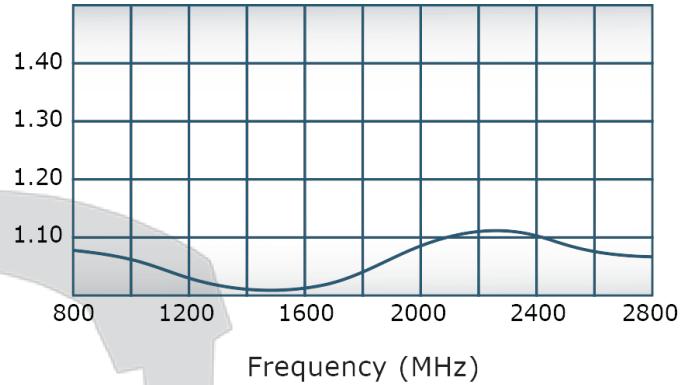
C5681

Performance Data (Specifications subject to change without notice):

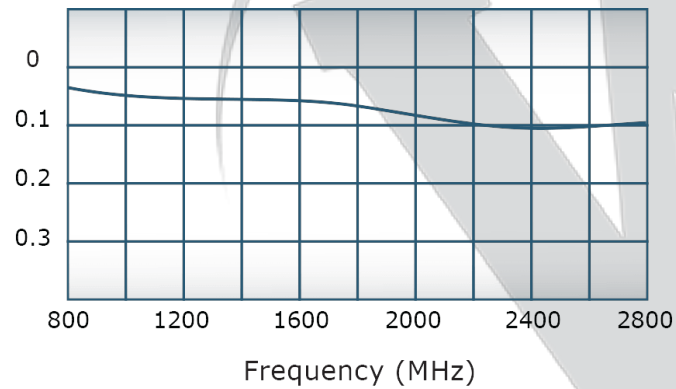
Coupling:



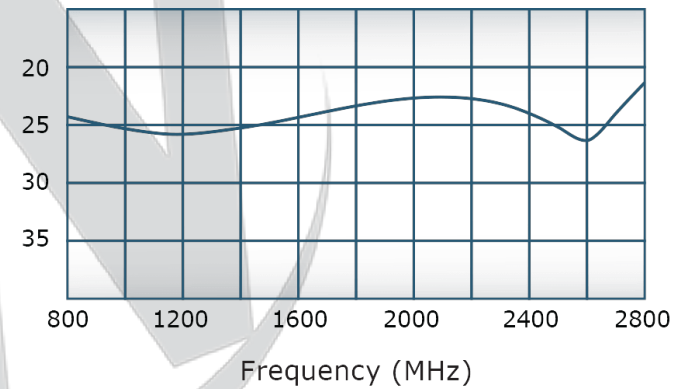
VSWR:



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	• INTERPRET DRAWING AS PER STD-100		RH	7/5/2001		 WERLATONE® SINCE 1965	
		• DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		• ARCHITECTURAL INFO FOR KEY ONLY		ENGR	DATE			
		• DIMENSIONS ARE IN INCHES		MD	7/5/2001	 WERLATONE® SINCE 1965		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		RFGR	DATE			
		• TOLERANCES:		QA	DATE			
		ANGLES ± 2° ± 0.1 ± 0.05 [13] ± 0.1 ± 0.25 [26]		RLSE	DATE			
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				 WERLATONE® SINCE 1965		
		• CONCENTRICITY MAXIMUM DIA. .002 FIM						
		• MACHINE TOOL DEVIATION .002 MAX						
APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1
				SIZE		CAGE CODE DWG NO		
						B		
						10379-505		

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