


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

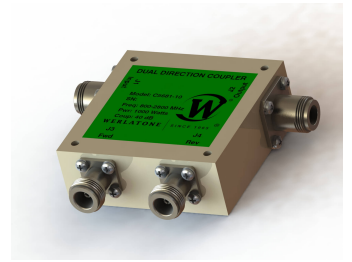
Unit is de-rated to 500 W CW with N-F mainline connectors.

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



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Model C5681

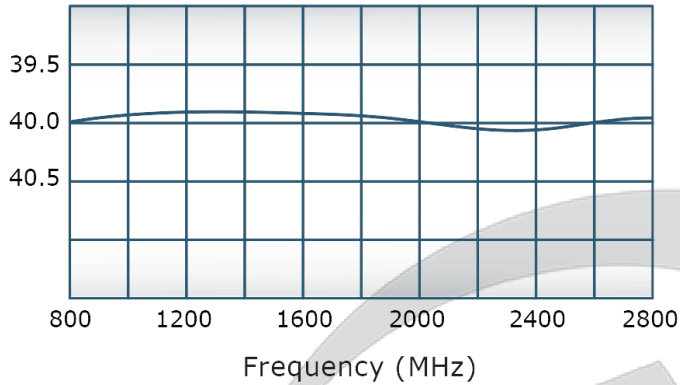


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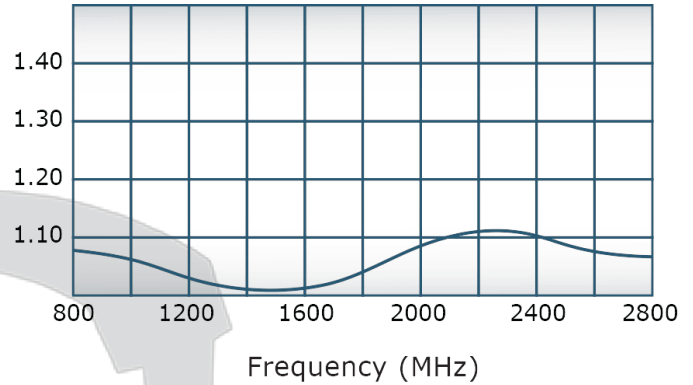
C5681

Performance Data (Specifications subject to change without notice):

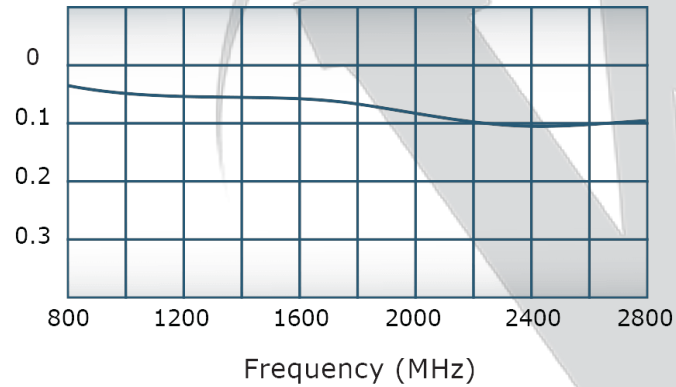
Coupling:



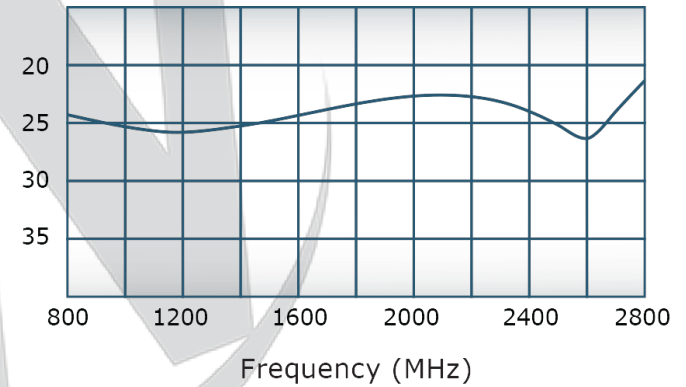
VSWR:



Insertion Loss:



Directivity:



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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



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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	<div> WERLATONE SINCE 1965</div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>
		<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">ANGLES ± 2°3 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		RH	7/5/2001	
				CHK	DATE	TITLE <div>OUTLINE</div>
				ENGR	DATE	
				MJ	7/5/2001	SIZE CAGE CODE DWG NO <div>B 10379-505</div>
				MPOR	DATE	
				QA	DATE	REV <div>A</div>
					DATE	
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 		RLSE	DATE	SCALE 1:1
APPLICATION						SHEET 1 OF 1

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