


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:

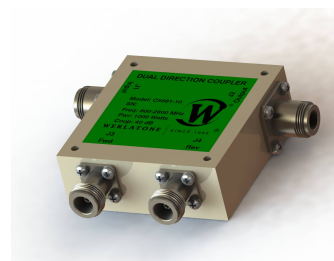
Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F
Type I Class 3 (Yellow Iridite)
RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Humidity: 95% Non-Condensing
Size: 3.0 x 3.0 x 1.09"

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"

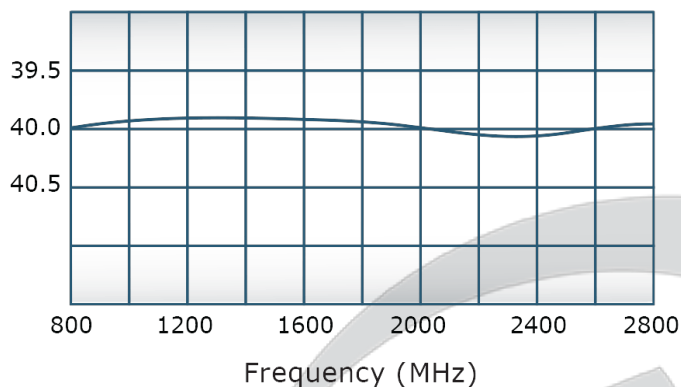


PRODUCT DATA SHEET

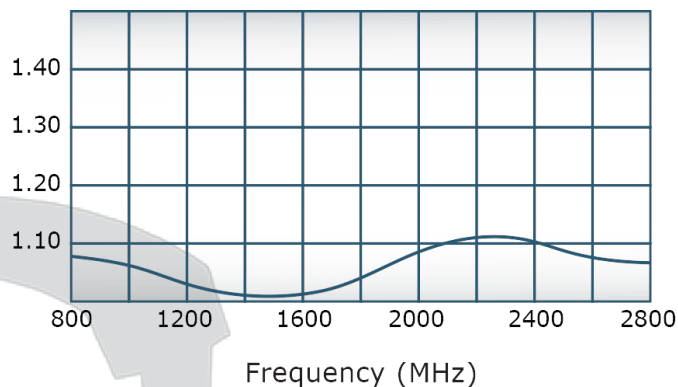
C5681

Performance Data (Specifications subject to change without notice):

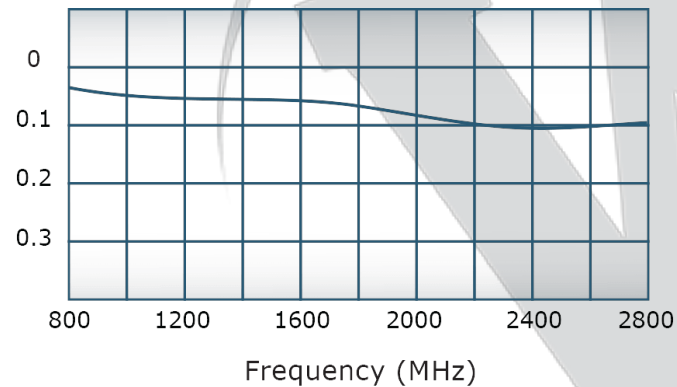
Coupling:



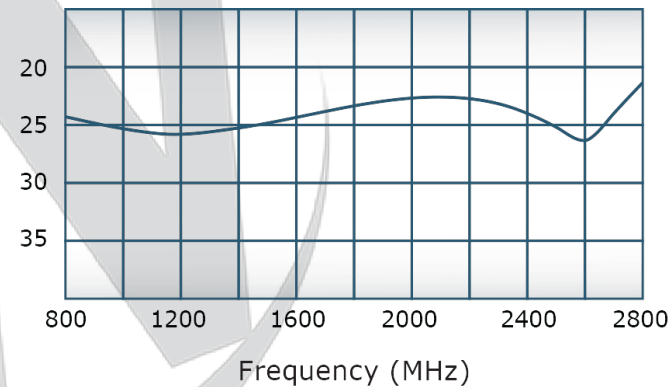
VSWR:



Insertion Loss:



Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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



RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION
This document contains proprietary information which is the sole property of Werlatone, Inc.



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		DWGN	DATE	 WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
		<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		CHK	DATE	
				ENGR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 10379-505
				MJ	7/5/2001	
				MFR		REV A
				QA	DATE	
				DATE	DATE	SCALE 1:1
				DATE	DATE	
				DATE	DATE	
				DATE	DATE	
NEXT ASSY		USED ON		SHEET 1 OF 1		
APPLICATION		THIRD ANGLE PROJECTION 				

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com