
**PRODUCT DATA SHEET**
**C8284**

**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.

**Features:**

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

**Electrical Specifications:**

Frequency: 1000 - 3000 MHz  
Power: 1000 W CW  
Coupling: 40 ± 1.0 dB Max.  
Insertion Loss: 0.3 dB Max.  
Flatness: ± 0.5 dB Max.  
VSWR (ML): 1.35:1 Max.  
Directivity: 18 dB Min.

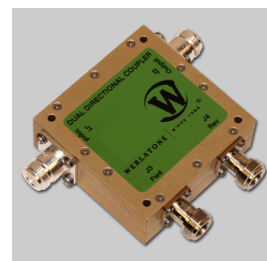
**Mechanical Specifications:**

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)
C8284-10	N Female	N Female	N Female	N Female
C8284-12	N Female	N Female	SMA	SMA
C8284-13	N Female	N Female	BNC	BNC
C8284-20*	7/16 Female	7/16 Female	N Female	N Female
C8284-22*	7/16 Female	7/16 Female	SMA	SMA
C8284-23*	7/16 Female	7/16 Female	BNC	BNC
C8284-41	SC Female	SC Female	N Female	N Female
C8284-43	SC Female	SC Female	SMA	SMA
C8284-627*	7/16 Female	7/16 Male	N Female	N Female
C8284-727*	7/16 Male	7/16 Female	N Female	N Female
C8284-728*	7/16 Male	7/16 Female	SMA	SMA

(7/16 Mainline connector option increases size to 3.0 x 3.0 x 1.59")

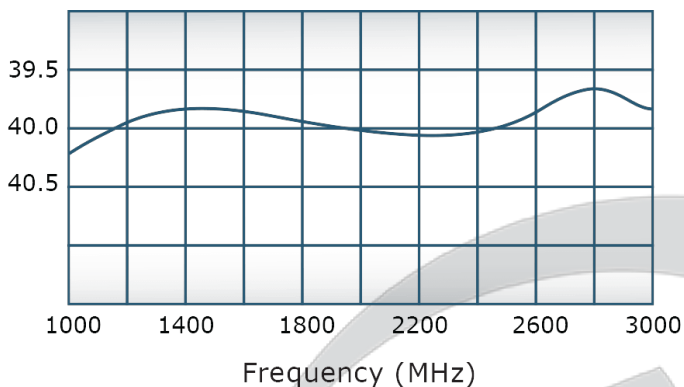


## PRODUCT DATA SHEET

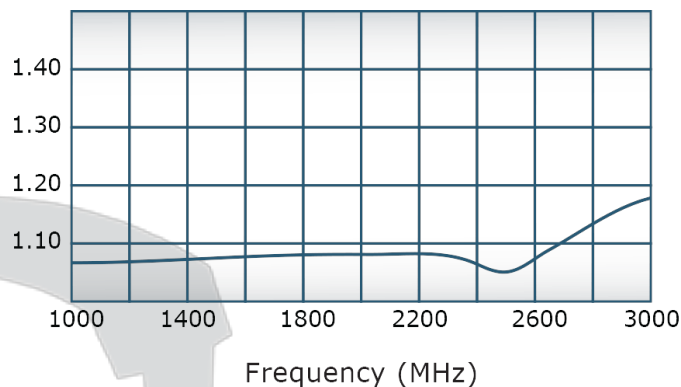
C8284

### Performance Data (Specifications subject to change without notice):

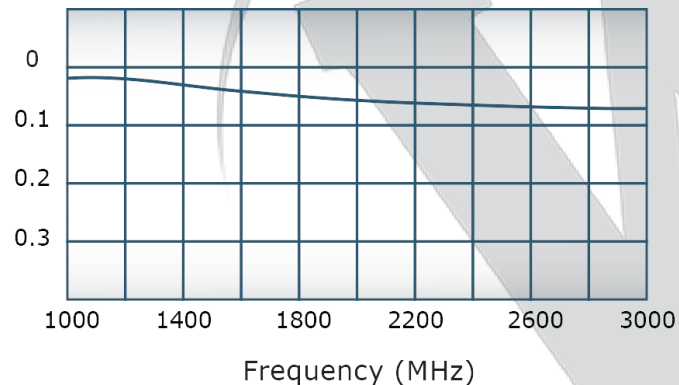
Coupling:



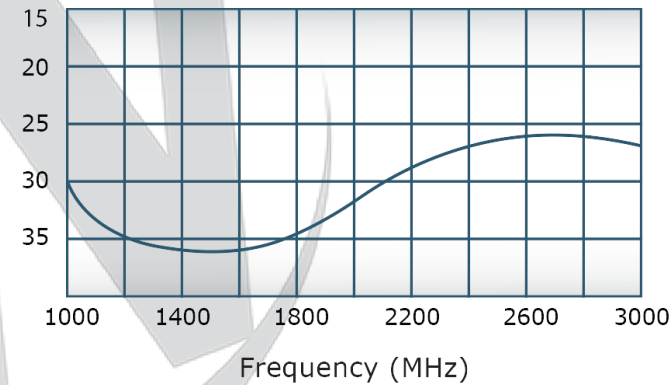
VSWR:



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		OWN	DATE	<div> WERLATONE SINCE 1965</div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		<ul style="list-style-type: none"><li>• INTERPRET DRAWING JAW MIL-STD-100</li><li>• DIMENSIONING PER ASME Y14.5M-2009</li><li>• PARENTHETICAL INFO FOR REF ONLY</li><li>• DIMENSIONS ARE IN INCHES</li><li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li><li>• TOLERANCES:<ul style="list-style-type: none"><li>ANGLES ± 2°</li><li>3 PL. ± .005 [1.3]</li><li>2 PL. ± .015 [3.8]</li></ul></li><li>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</li><li>• CONCENTRICITY MACHINED DIA: .002 FIM</li><li>• MACHINE TOOL MISMATCH: .003 MAX</li></ul>		RH	7/5/2001		
				CHK	DATE		
				ENGR	DATE	TITLE	
				MJ	7/5/2001	OUTLINE	
				MFG	DATE	B      CAGE CODE      DWG NO	
				QA	DATE	10379-505	
				ELSE	DATE	SCALE      1:1	
NEXT ASSY      USED ON		THIRD ANGLE PROJECTION 				SHEET 1 OF 1	
APPLICATION							

**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