

PRODUCT DATA SHEET

C5083

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: 200 - 400 MHz
 Power: 100 W CW
 Coupling: 30 ± 1.0 dB Max.
 Flatness: ± 0.5 dB Max.
 Insertion Loss: 0.1 dB Max.
 VSWR (ML): 1.10:1 Max.
 Directivity: 26 dB Min.

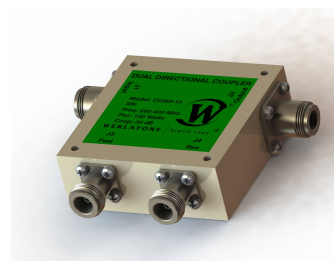
Mechanical Specifications:

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)
C5083-10	N Female	N Female	N Female	N Female
C5083-12	N Female	N Female	SMA	SMA
C5083-13	N Female	N Female	BNC	BNC
C5083-102	SMA	SMA	SMA	SMA

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

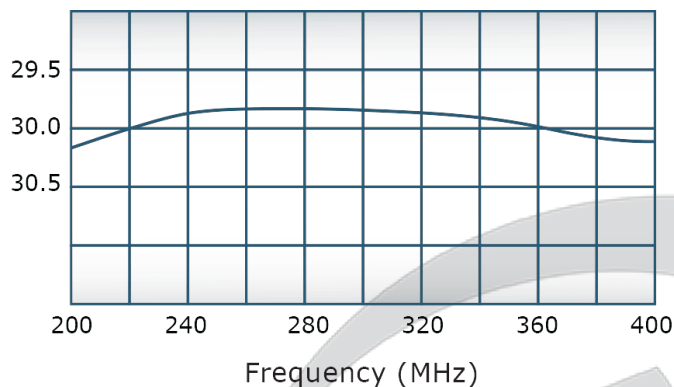


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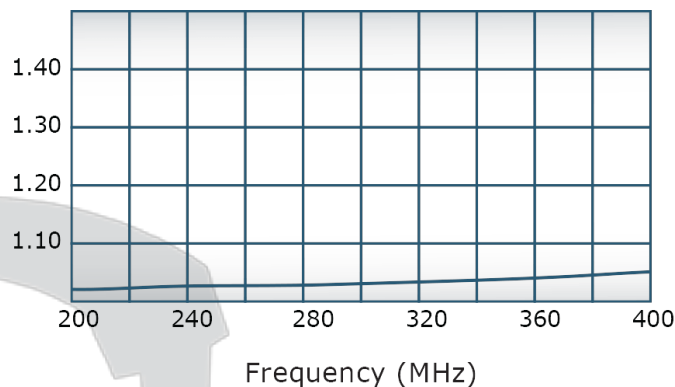
C5083

Performance Data (Specifications subject to change without notice):

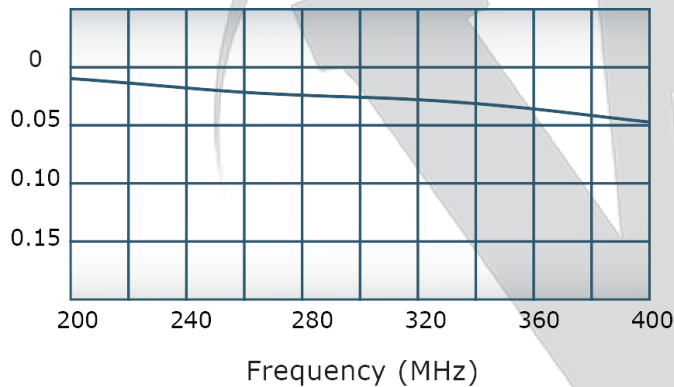
Coupling:



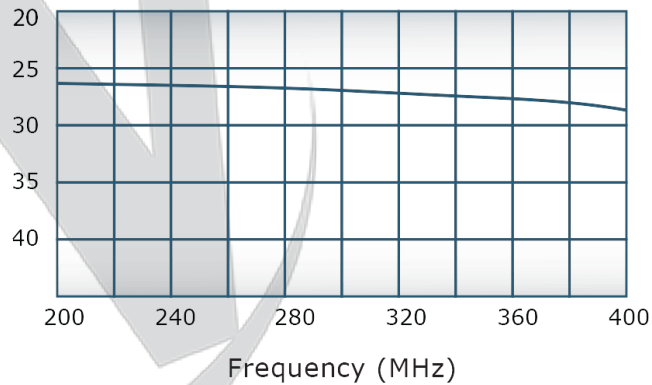
VSWR:



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						DWN	DATE	 WERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12568			
			• INTERPRET DRAWING SHIP MIL-STD-105						RH	7/5/2001					
			• DIMENSIONING PER ASME Y14.5-2009						CHK	DATE		TITLE			
			• DIMENSIONAL INFO FOR KEY ONLY												
			• DIMENSIONS ARE IN INCHES												
			• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES						BNGR	DATE					
			• TOLERANCES:						MJ	7/5/2001					
			ANGLES ± ° 3 R/L ± .005 [1.3] 2 P/L ± .015 [2]						MFR		OUTLINE				
			• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								SIZE	CAGE CODE	DWG NO		
			• CONCENTRICITY MACHINING DIA. .002 FIM						QA	DATE	10379-505				
			• MACHINE TOOL DEVIATION .002 MAX								SCALE	1:1			
NEXT ASSY	USED ON								RLSE	DATE					
APPLICATION			THIRD ANGLE PROJECTION 						SHEET 1 OF 1						

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