

PRODUCT DATA SHEET

C10006

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: 700 - 4200 MHz
Power: 2000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.35:1 Max.
Directivity: 18 dB Min.

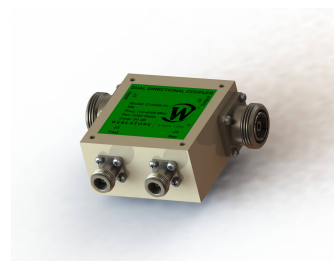
Mechanical Specifications:

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 1.59"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10006-20	7/16 Female	7/16 Female	N Female	N Female
C10006-22	7/16 Female	7/16 Female	SMA	SMA
C10006-23	7/16 Female	7/16 Female	BNC	BNC
C10006-71	7/8" EIA	7/8" EIA	N Female	N Female

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.

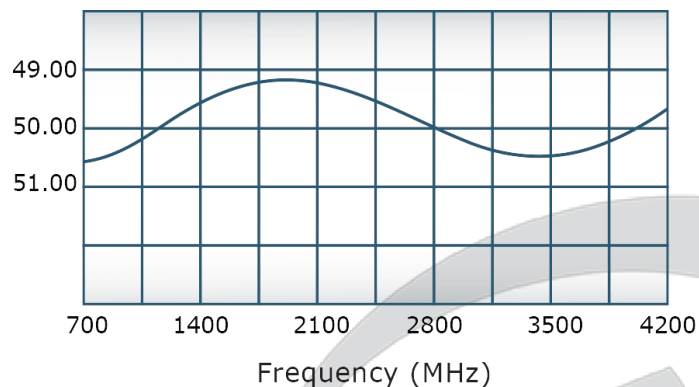


PRODUCT DATA SHEET

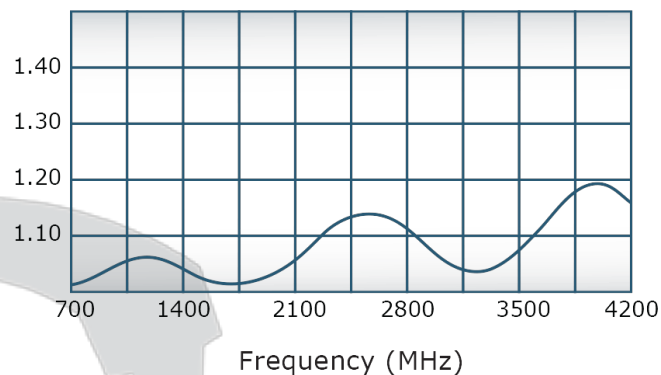
C10006

Performance Data (Specifications subject to change without notice):

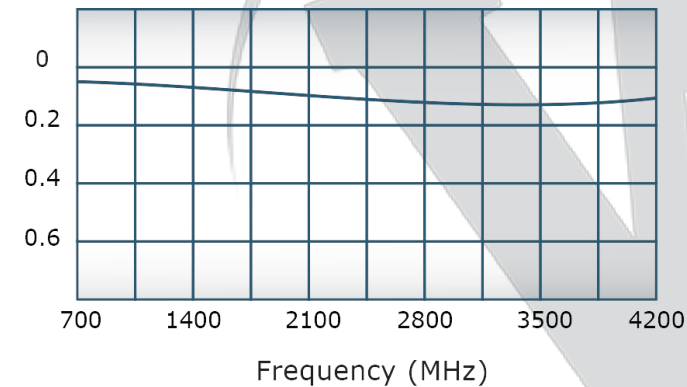
Coupling:



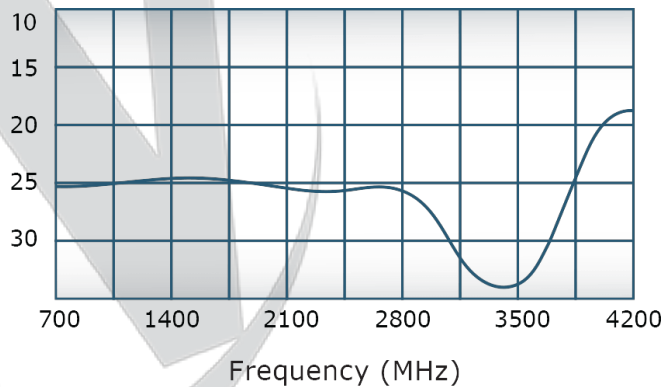
VSWR:



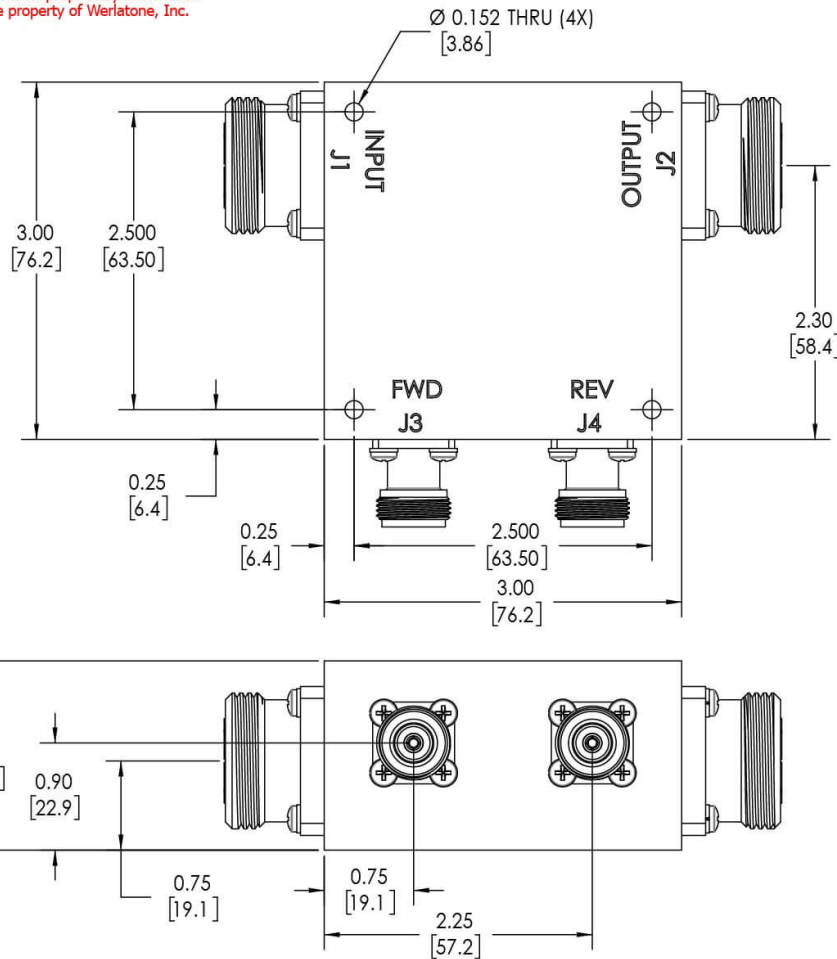
Insertion Loss:



Directivity:



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



REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
 - CONNECTORS:**
J1, J2: 7/16 FEMALE
J3, J4: N FEMALE

		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/13/2019		Patterson, NY 12563	
		DIMENSIONS FOR ASSEMBLY		CHK	DATE			
		PARENTHESES FOR REF ONLY		CS	5/13/2019			
		DIMENSIONS ARE IN INCHES		ENGR	DATE			
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE			
		TOLERANCES:						
		ANGLES ± 2°						
		3 PL ± .005 [13]						
		2 PL ± .015 [38]						
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX						
		CONCENTRICITY MACHINED DIA. .002 FIM		QA	DATE			
		MACHINE TOOL MISMATCH .003 MAX						
NEXT ASSY		USED ON		RLSE	DATE			
APPLICATION		THIRD ANGLE PROJECTION						
								
				SCALE		1:1		
						SHEET 1 OF 1		
				SIZE		CAGE CODE		
				DWG NO		REV		
				B		A		
				10443-501				

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