

PRODUCT DATA SHEET

C6158

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 - 2500 MHz
Power: 50 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.3 dB Max.
Flatness: ± 0.5 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)
C6158-10	N Female	N Female	N Female	N Female
C6158-12	N Female	N Female	SMA	SMA
C6158-102	SMA	SMA	SMA	SMA
C6158-714	N Male	N Female	N Female	N Female

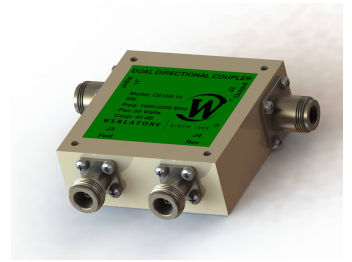
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C6158

Connectorized Directional Couplers

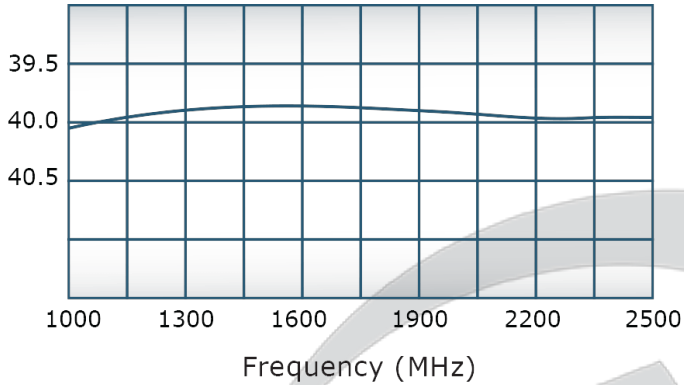


PRODUCT DATA SHEET

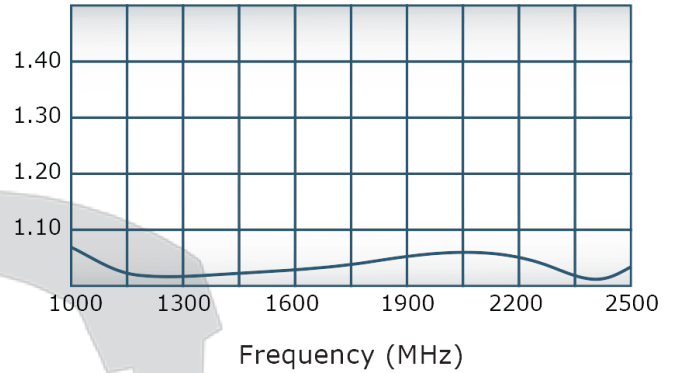
C6158

Performance Data (Specifications subject to change without notice):

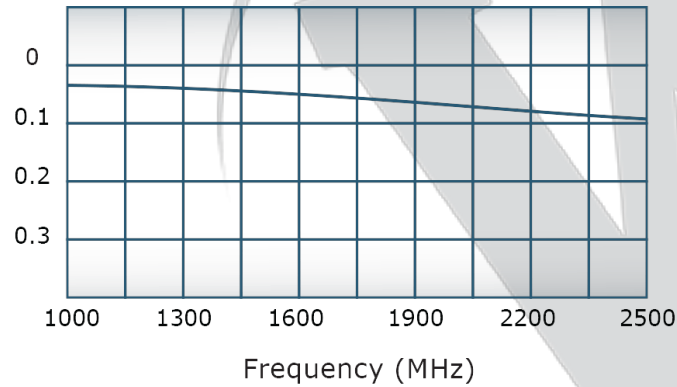
Coupling:



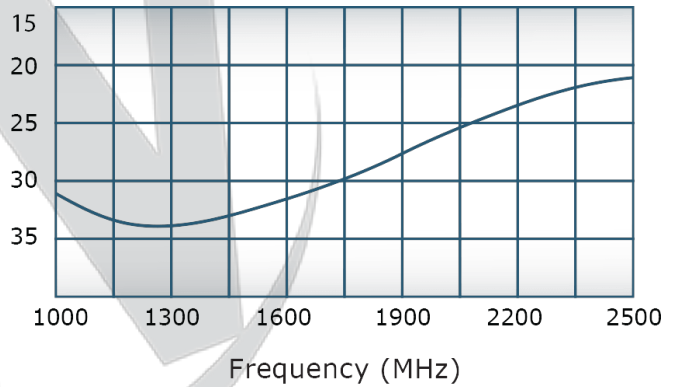
VSWR:



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		OWN	DATE	 WERLATONE® SINCE 1963		17 Jon Barrett Rd Patterson, NY 12568	
		* INTERPRET DRAWING AS PER MIL-STD-100 * DIMENSIONING PER ASME Y14.2M-2009 * PRACTICAL TOLERANCES FOR KEY ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * TOLERANCES: ANGLES = ± 2 P.S. ± .005 (.13) 2 P.L. ± .005 (.13) REMOVE ALL BURRS AND SHARP EDGES R.01 MAX * CONCENTRICITY MAXIMUMS .010 INCH * MACHINE TOOL DEVIATION .002 MAX		RH DATE 7/5/2001	CHK DATE	TITLE			
				ENGR DATE 7/5/2001	M3 DATE	OUTLINE			
				QA DATE	BLSE DATE	SIZE	CAGE CODE	DWG NO	REV
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 		SCALE		1:1		10379-505	SHEET 1 OF 1
APPLICATION									

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