
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.

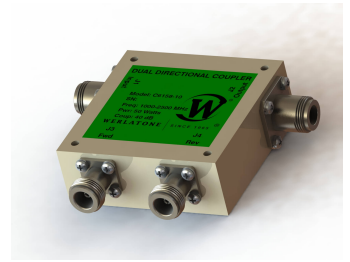
Mechanical Specifications:

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.

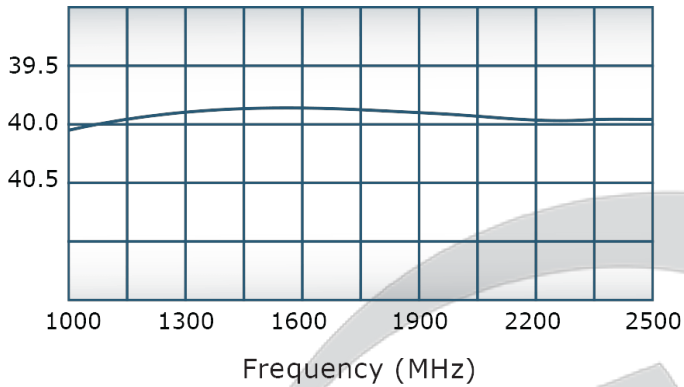


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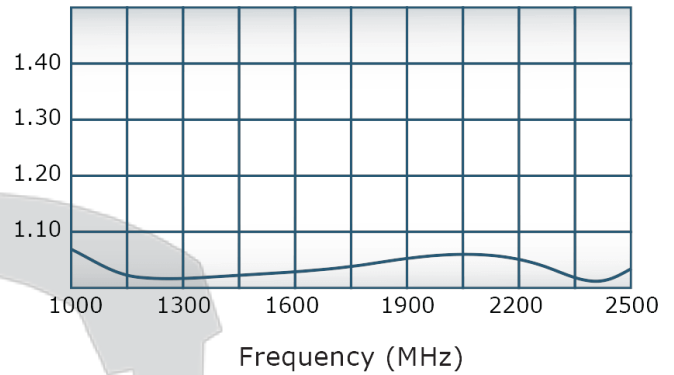
C6158

Performance Data (Specifications subject to change without notice):

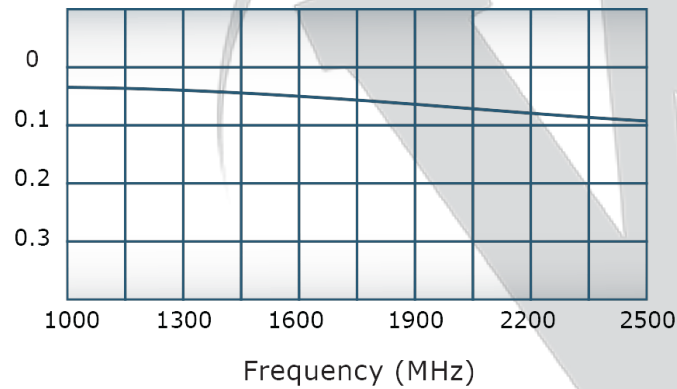
Coupling:



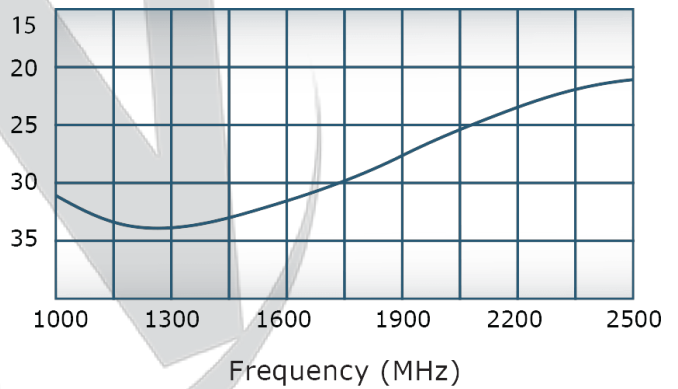
VSWR:



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

- 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>	
		• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001		
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	<div>TITLE</div> <div>OUTLINE</div> <div>SIZE: B CAGE CODE: 10379-505 DWG NO: 10379-505</div> <div>REV: A</div>	
		• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE		
		• DIMENSIONS ARE IN INCHES		MJ	7/5/2001		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE		
		• TOLERANCES:		QA	DATE		
		• ANGLES: ± 2°		RLSE	DATE		
		• 2 PL. ± .005 [1.3]					
		• 2 PL. ± .015 [1.3]					
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
		• CONCENTRICITY MACHINED DIA: .002 FIM					
		• MACHINE TOOL MISMATCH: .003 MAX					
NEXT ASSY		USED ON					
APPLICATION		THIRD ANGLE PROJECTION					

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