


PRODUCT DATA SHEET
C10559

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: 500 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.30:1 Max.
Directivity: 15 dB Min.

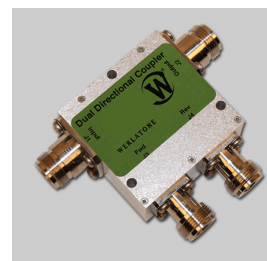
Mechanical Specifications:

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: 2.0 x 2.0 x 1.06"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10559-10	N Female	N Female	N Female	N Female
C10559-12	N Female	N Female	SMA	SMA
C10559-714	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.

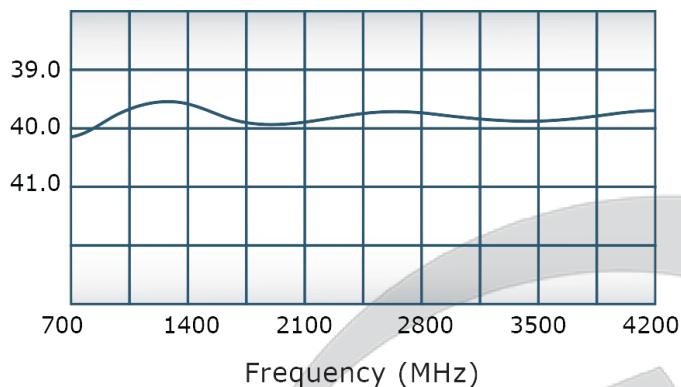


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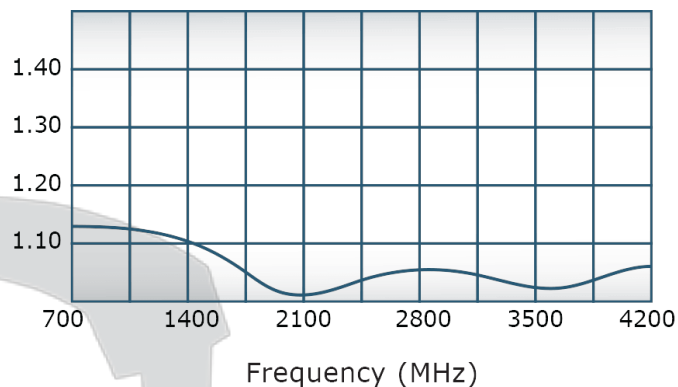
C10559

Performance Data (Specifications subject to change without notice):

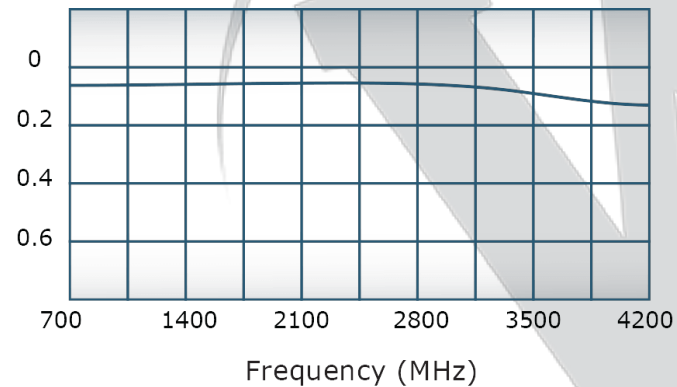
Coupling:



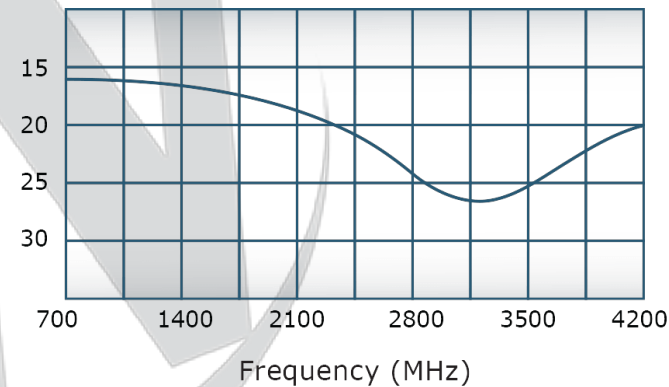
VSWR:



Insertion Loss:



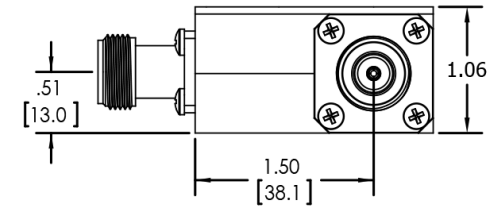
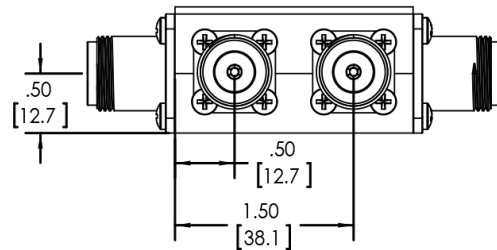
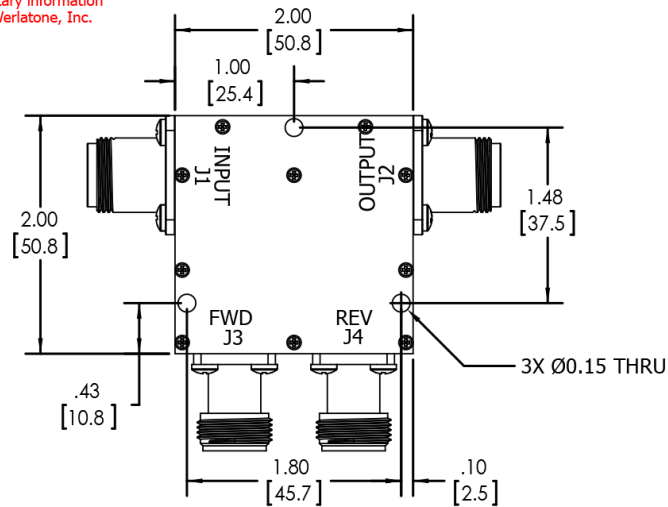
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		

UNLESS OTHERWISE SPECIFIED		DATE	9/30/2014	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		DATE	9/30/2014	
DIMENSIONS ARE IN INCHES (mm)		DATE	9/30/2014	
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		DATE	9/30/2014	
TOLERANCES:		DATE	9/30/2014	
ANGLES ± 2°		DATE	9/30/2014	
3 PL ± .005 (.13)		DATE	9/30/2014	
2 PL ± .015 (.4)		DATE	9/30/2014	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	9/30/2014	
CONCENTRICITY MACHINED DIA. .002 FIM		DATE	9/30/2014	
MACHINE TOOL MISMATCH .003 MAX		DATE	9/30/2014	
THIRD ANGLE PROJECTION		DATE	9/30/2014	
APPLICATION		DATE	9/30/2014	
NEXT ASSY USED ON		DATE	9/30/2014	
C10117		DATE	9/30/2014	
TITLE		DATE	9/30/2014	
OUTLINE		DATE	9/30/2014	
SIZE		DATE	9/30/2014	
B 28812		DATE	9/30/2014	
CAGE CODE		DATE	9/30/2014	
21250-500		DATE	9/30/2014	
DWG NO		DATE	9/30/2014	
SCALE		DATE	9/30/2014	
1:1		DATE	9/30/2014	
SHEET 1 OF 1		DATE	9/30/2014	

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