

PRODUCT DATA SHEET

C11174

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 - 6000 MHz
Power: 50 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.

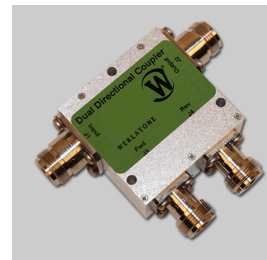
Mechanical Specifications:

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)
C11174-10	N Female	N Female	N Female	N Female
C11174-12	N Female	N Female	SMA	SMA
C11174-610	N Female	N Male	N Female	N Female
C11174-612	N Female	N Male	SMA	SMA
C11174-714	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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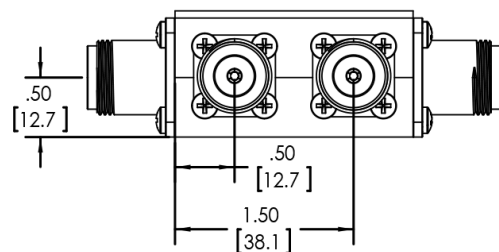
Performance Data (Specifications subject to change without notice):



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UNLESS OTHERWISE SPECIFIED		DWG	DATE	 WERLATON® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
INTERPRET DRAWING IN ACCORDANCE WITH DIMENSIONS PER ASME Y14.5-2009 DIMENSIONAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES (mm)		SC	9/30/2014		 WERLATON® SINCE 1965		
DIMENSIONAL LIMITS APPLY BEFORE PRECISION TOLERANCES.		CRK	DATE				
ANGLES ± .005 [13] 3 PL ± .005 [13] 2 PL ± .015 [4]		CS	9/30/2014				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINE DIA .002 FIM MACHINE TYPICAL FINISH .003 MAX		NCV	DATE				
		BW	9/30/2014				
		SA	DATE	OUTLINE			
		RELSE	DATE	SIZE B 28812	CASE CODE 21250-500	DWG NO 1:1	
				REV -			
C10117 USED ON ION		THIRD ANGLE PROJECTION		SHEET 1 OF 1			

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