

## 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:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 1.0$  dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 15 dB Min.

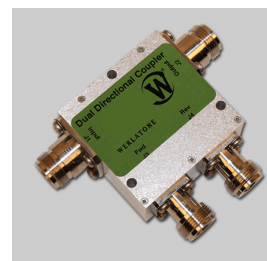
### Mechanical Specifications:

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):**

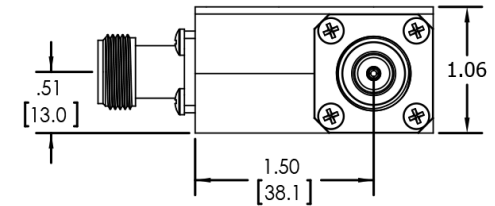
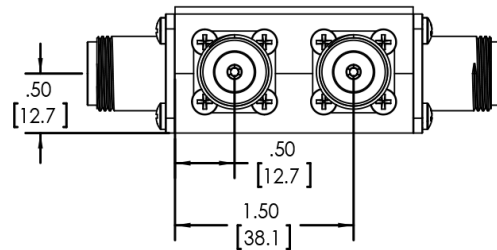
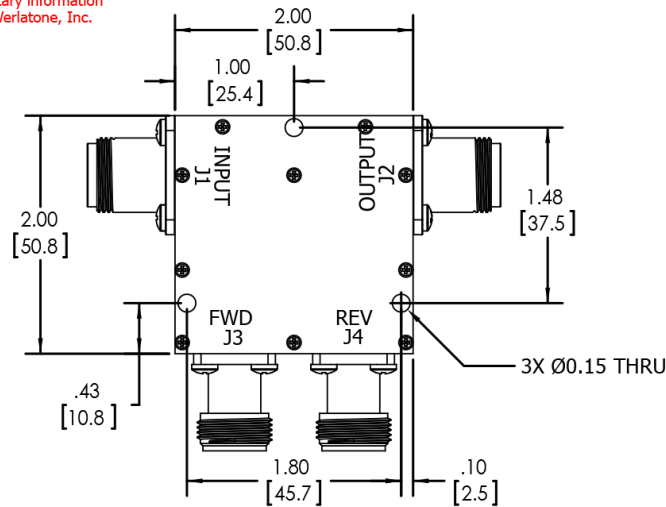


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		



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

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