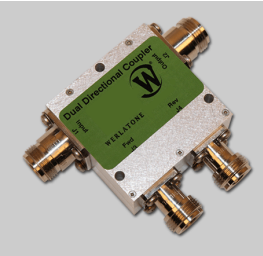
WERLATONE

Model C11174



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:

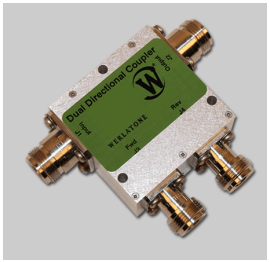
Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Humidity:	95% Non-Condensing
Size:	2.0 x 2.0 x 1.06''

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.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



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Performance Data (Specifications subject to change without notice):

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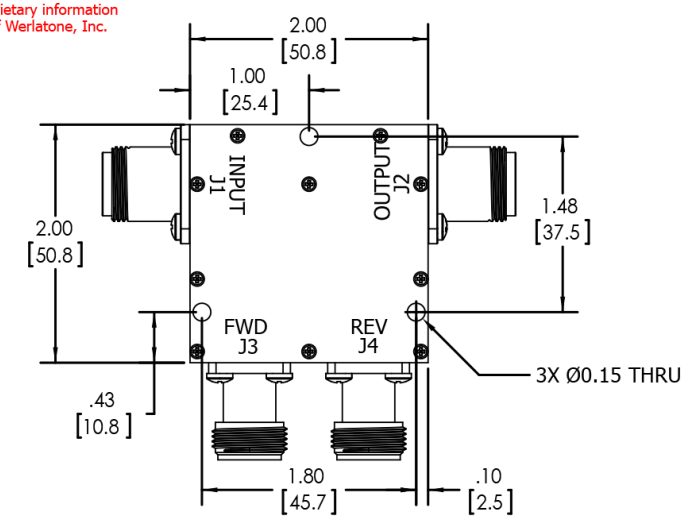
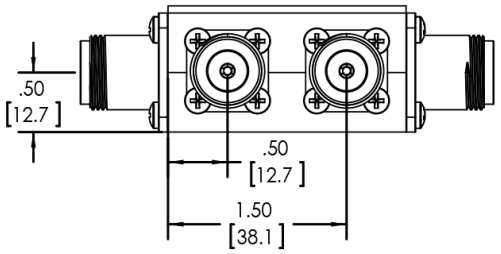
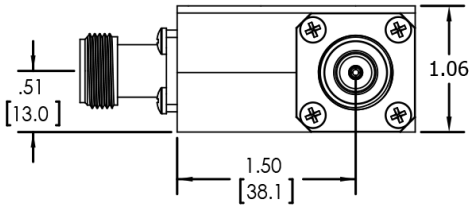
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		







		UNLESS OTHERWISE SPECIFIED	DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		- INTERPRET DRAWING IAW MIL-STD-100	SC	9/30/2014			
		- DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE			
		- PARENTHETICAL INFO FOR REF ONLY	CS	9/30/2014			
		- DIMENSIONS ARE IN INCHES [mm]	ENGR	DATE			
		- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	BW	9/30/2014	TITLE		
		- TOLERANCES:	MFGR	DATE	OUTLINE		
		ANGLES ± 2°					
		3 PL ± .005 [.13]	QA	DATE	SIZE / CAGE CODE / DWG NO / REV		
		2 PL ± .015 [.4]			B / 28812 / 21250-500 / -		
		- REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	RLSE	DATE			
		- CONCENTRICITY MACHINED DIA: .002 FIM			SCALE 1:1	SHEET 1 OF 1	
		- MACHINE TOOL MISMATCH .003 MAX					
	C10117	THIRD ANGLE PROJECTION					
NEXT ASSY	USED ON						
APPLICATION							

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