
PRODUCT DATA SHEET
C10870

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: 400 W CW
 Coupling: 50 ± 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"

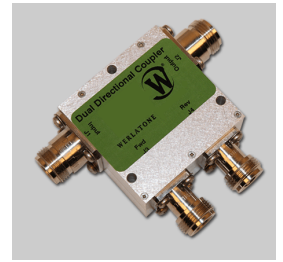
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10870-10	N Female	N Female	N Female	N Female
C10870-12	N Female	N Female	SMA	SMA
C10870-612	N Female	N Male	SMA	SMA
C10870-714	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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

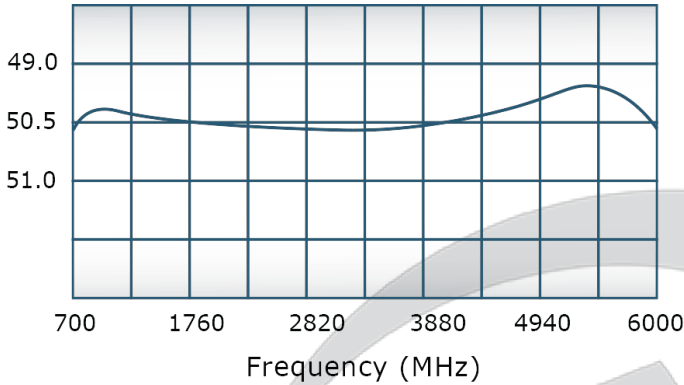


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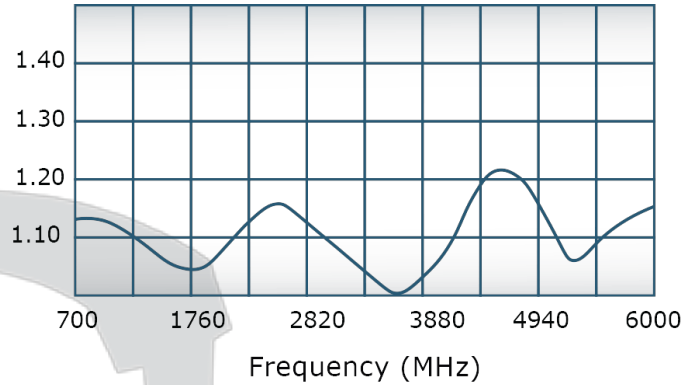
C10870

Performance Data (Specifications subject to change without notice):

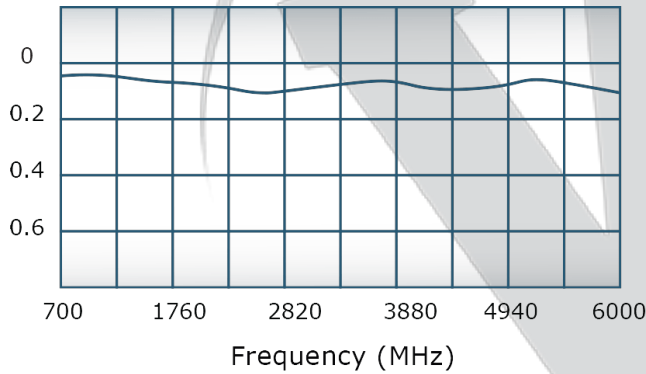
Coupling:



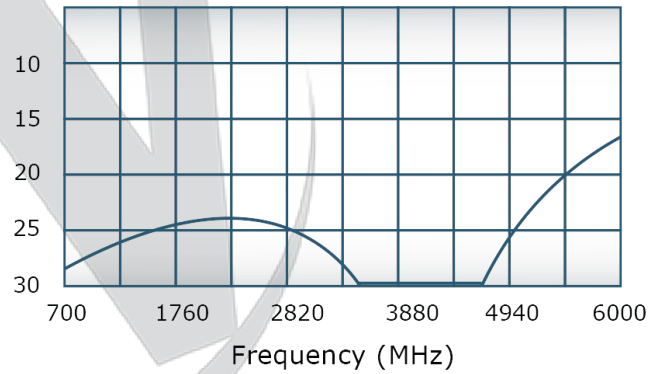
VSWR:



Insertion Loss:



Directivity:



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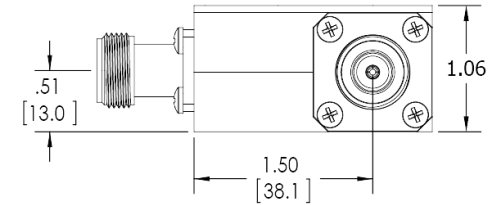
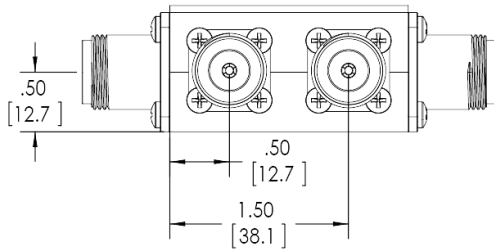
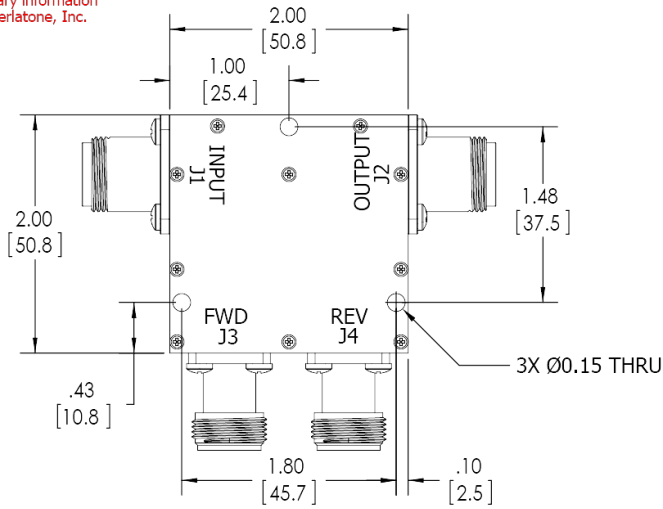
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3 2 2015	CS



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM**
- SURFACE FINISH: CHEM FILM PER MIL-DTL-5541F TYPE II CLASS 3 (CLEAR)**
- CONNECTORS: ALL N FEMALE**

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

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