
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.

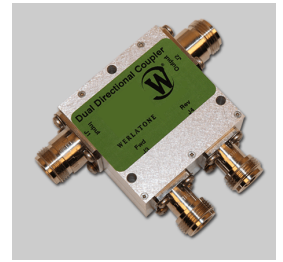
Mechanical Specifications:

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.

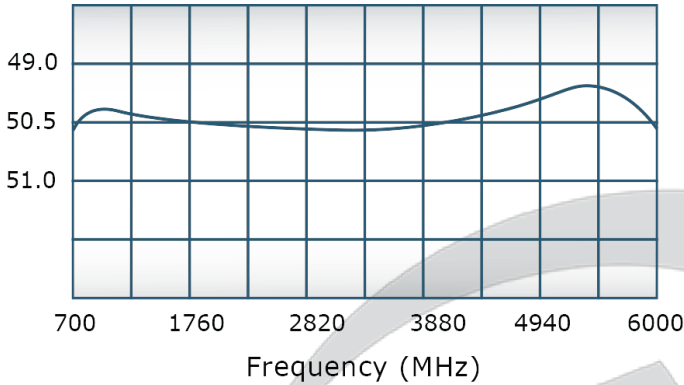


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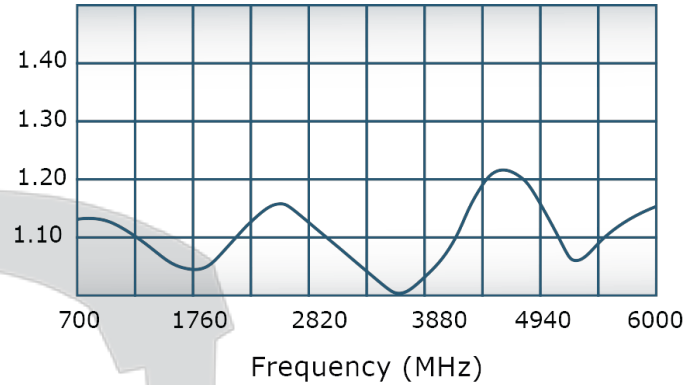
C10870

Performance Data (Specifications subject to change without notice):

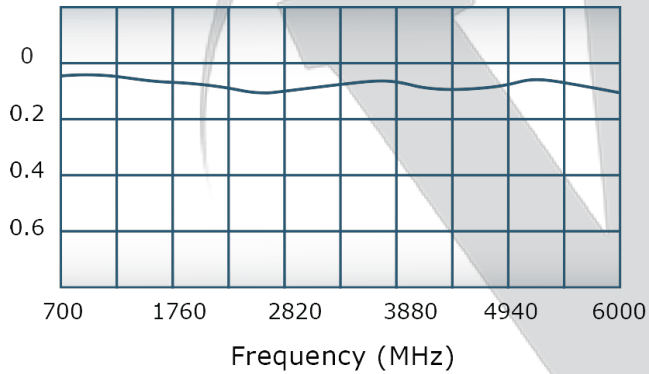
Coupling:



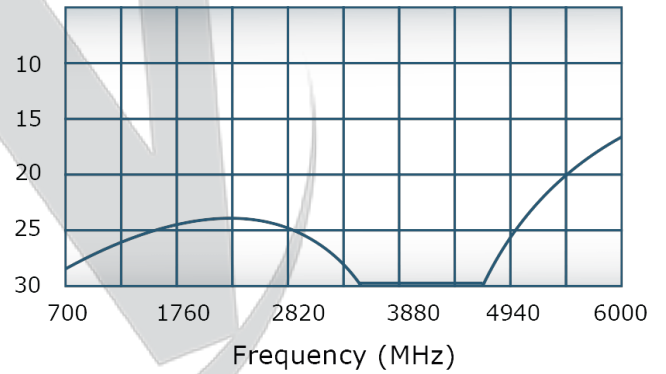
VSWR:



Insertion Loss:



Directivity:

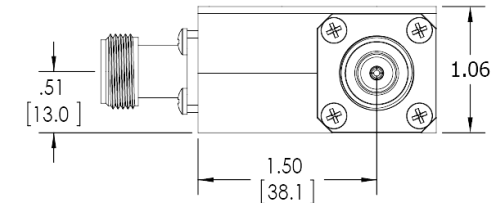
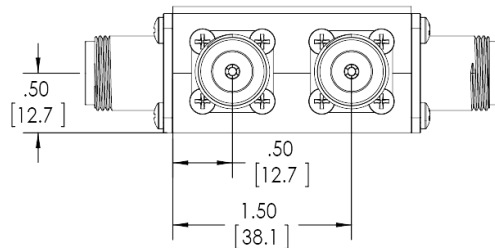
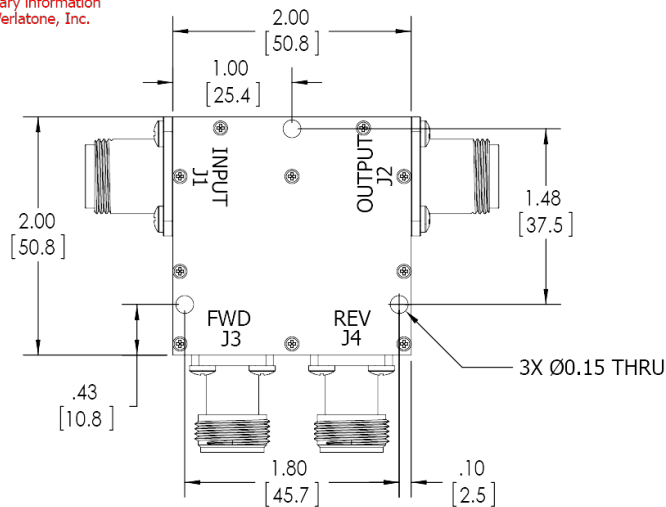


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NOTES: UNLESS OTHERWISE SPECIFIED

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

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

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING 1441 MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARENTHETHICAL UNITS 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 MATCHING DIA. .003 FIM		SC	9/30/2014				
		CHK	DATE	OUTLINE		SIZE CAGE CODE DWG NO B 28812 21250-500	
		ENGR	9/30/2014				
		BW	9/30/2014	SCALE 1:1		SHEET 1 OF 1	
		INFR	DATE				
		QA	DATE	REV -			
		RLSE	DATE				
NEXT ASSY USED ON		THIRD ANGLE PROJECTION					
APPLICATION							

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