



## PRODUCT DATA SHEET

C8657

**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:	800 - 1000 MHz
Power:	500 W CW
Coupling:	30 ± 1.0 dB Max.
Insertion Loss:	0.15 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.20:1 Max.
Directivity:	27 dB Min.

### Mechanical Specifications:

Type:	Non-Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Immersion Silver
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	1.40 x 1.10 x 0.13"

### Port Configurations:

<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>
Input	Output	Forward	Reverse

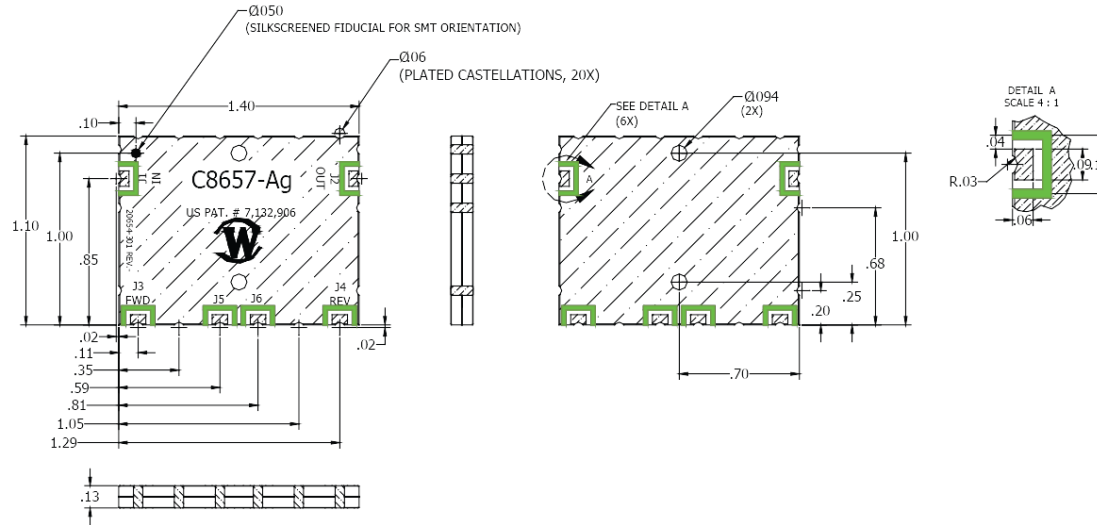
\*Ports J5 & J6 Must be Terminated with 50 Ohms Externally.

**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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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
4/8/2011	-	Initial Rls	NH	BW	BW



**NOTES: UNLESS OTHERWISE SPECIFIED**

1. SMT DEVICE
2. SURFACE FINISH: Immersion Silver (RoHS Compliant)
3. PORTS "J5" & "J6" NEEDS TO BE TERMINATED WITH 50 OHMS EXTERNALLY
4. HATCHED AREAS = METALLIZATION
5. GREEN SOLID AREAS = LPI SOLDER MASK

UNLESS OTHERWISE SPECIFIED		DW/	DATE	<b>WERLATONE   SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563		
<ul style="list-style-type: none"> <li>• INTERPRET DRAWING IAW MIL-STD-100</li> <li>• DIMENSIONING PER ASME Y14.5M-2009</li> <li>• PARANTHETICAL INFO FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES</li> <li>• TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015</li> </ul>		NH	04/08/11		TITLE		
THIRD ANGLE PROJECTION		CHK	DATE	OUTLINE			
		ENGR	DATE	USED ON			
		BW	04/08/11	C8657-Ag			
		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		RLSE	DATE	A	28812	20654-501	-
				SCALE			SHEET 1 OF 1

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