



PRODUCT DATA SHEET

C1569

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: 20 - 200 MHz
 Power: 250 W CW
 Coupling: 30 ± 1.0 dB Max.
 Flatness: ± 0.5 dB Max.
 Insertion Loss: 0.25 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 20 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: 4.0 x 2.0 x 1.88"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1569-10	N Female	N Female	N Female	N Female
C1569-12	N Female	N Female	SMA	SMA
C1569-13	N Female	N Female	BNC	BNC
C1569-200	BNC	BNC	BNC	BNC
C1569-714	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

Model C1569

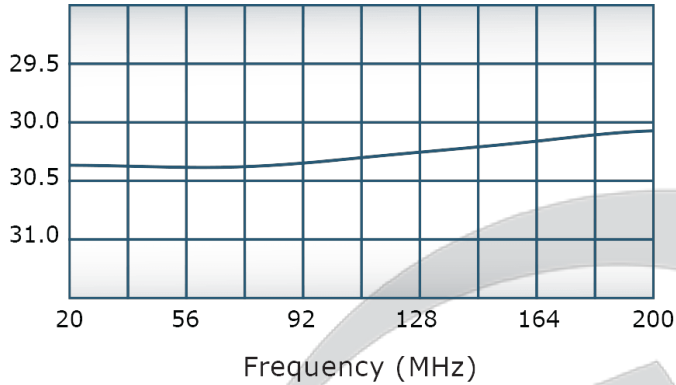


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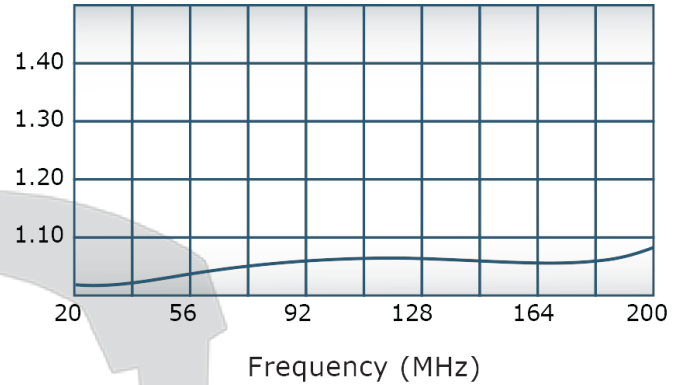
C1569

Performance Data (Specifications subject to change without notice):

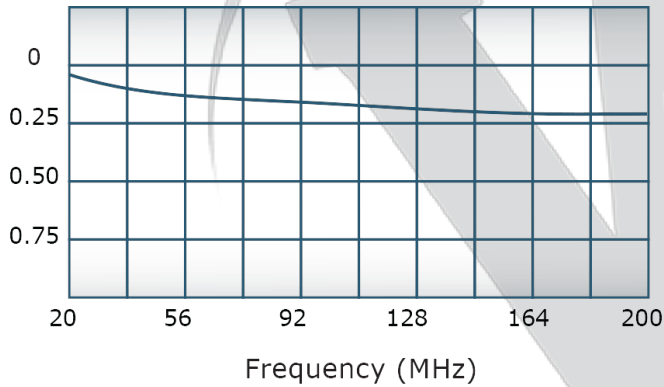
Coupling:



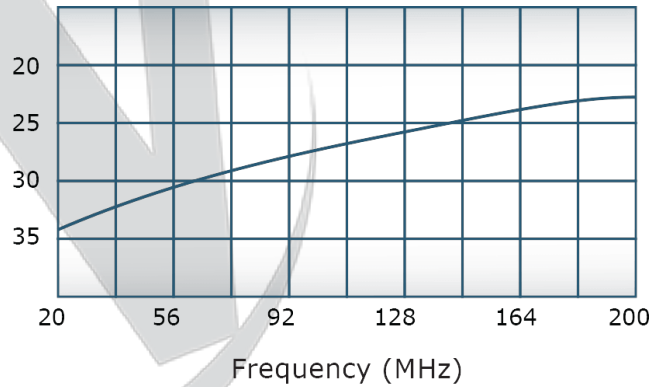
VSWR:



Insertion Loss:



Directivity:

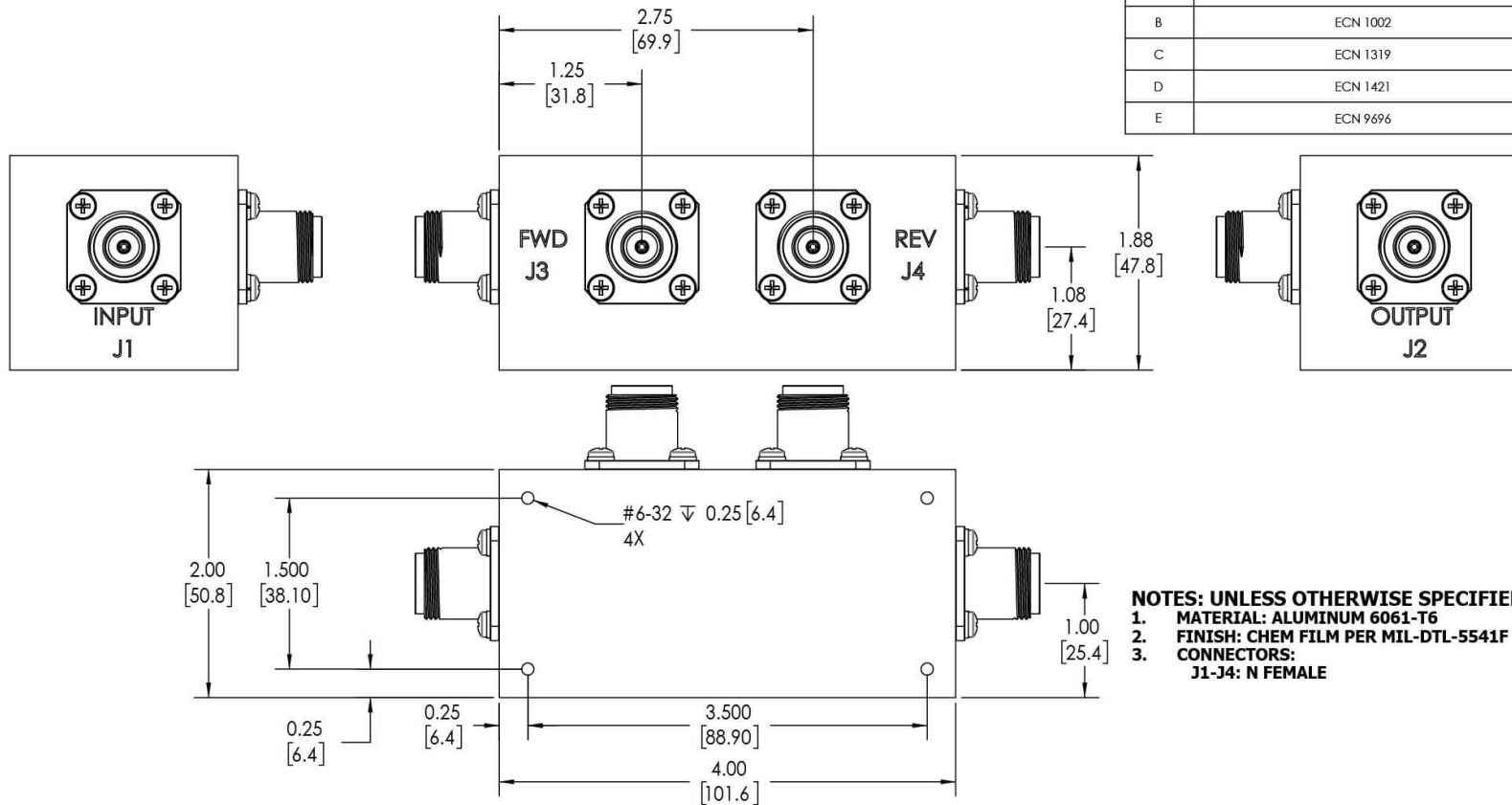


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1001	10/86	GW
B	ECN 1002	6/92	DK
C	ECN 1319	4/95	CS
D	ECN 1421	12/96	CS
E	ECN 9696	11/18	RB



NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1-J4: N FEMALE

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563					
		INTERPRET DRAWING INAW M&S-100		SD	2/11/2019	 WERLATONE SINCE 1965							
		DIMENSIONS PER PER ASME Y14.5M-2009		CHK	DATE								
		DIMENSIONAL INFO FOR REF ONLY		CS	2/11/2019								
		DIMENSIONS ARE IN INCHES		ENGR	DATE								
		DIMENSIONAL LINES APPLY BEFORE DIMENSIONS TOLERANCES: ANGLES ± .5° 3 PL ± .005 [13] 2 PL ± .015 [30]		MFR	DATE	<h1>OUTLINE</h1>							
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE					SIZE	CAGE CODE	DWG NO	REV
		CONCENTRICITY MACHINED DIA-.002 FPM MACHINE TOOL MISMATCH .003 MAX		RLSE	DATE					SCALE	10018-500		E
NEXT ASSY USED ON		APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1					
								SHEET 1 OF 1					

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