



PRODUCT DATA SHEET

C5522

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: 30 - 90 MHz
 Power: 100 W CW, 2 kW Peak
 Coupling: 30 ± 1.0 dB Max.
 Flatness: ± 0.5 dB Max.
 Insertion Loss: 0.25 dB Max.
 VSWR (ML): 1.10:1 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)
C5522-10	N Female	N Female	N Female	N Female
C5522-12	N Female	N Female	SMA	SMA
C5522-13	N Female	N Female	BNC	BNC
C5522-102	SMA	SMA	SMA	SMA

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

Model C5522

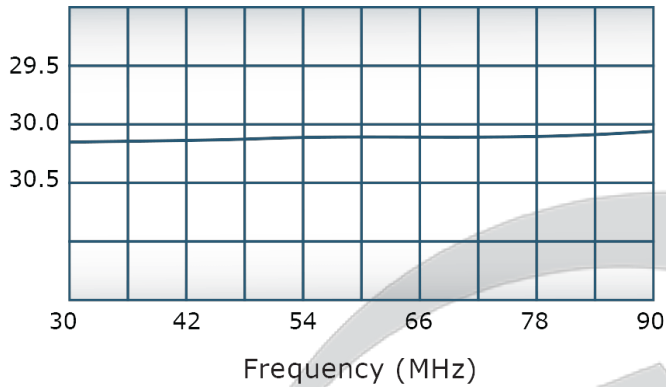


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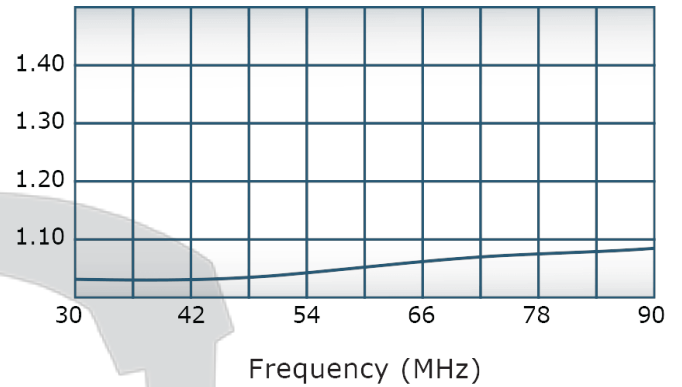
C5522

Performance Data (Specifications subject to change without notice):

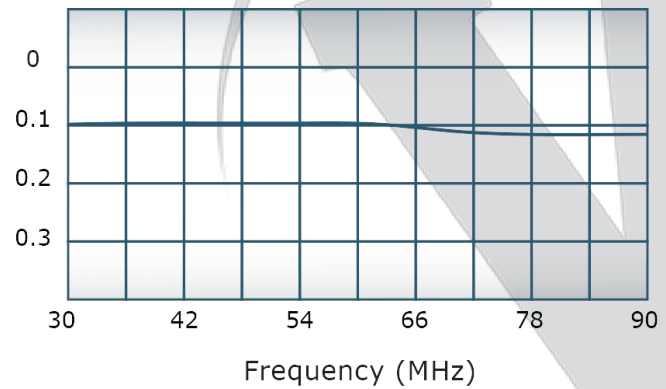
Coupling:



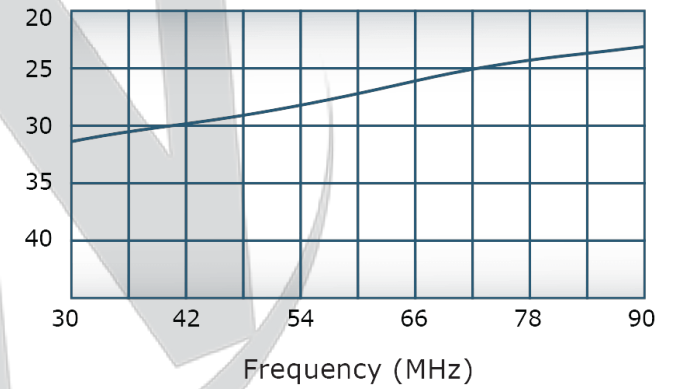
VSWR:



Insertion Loss:



Directivity:

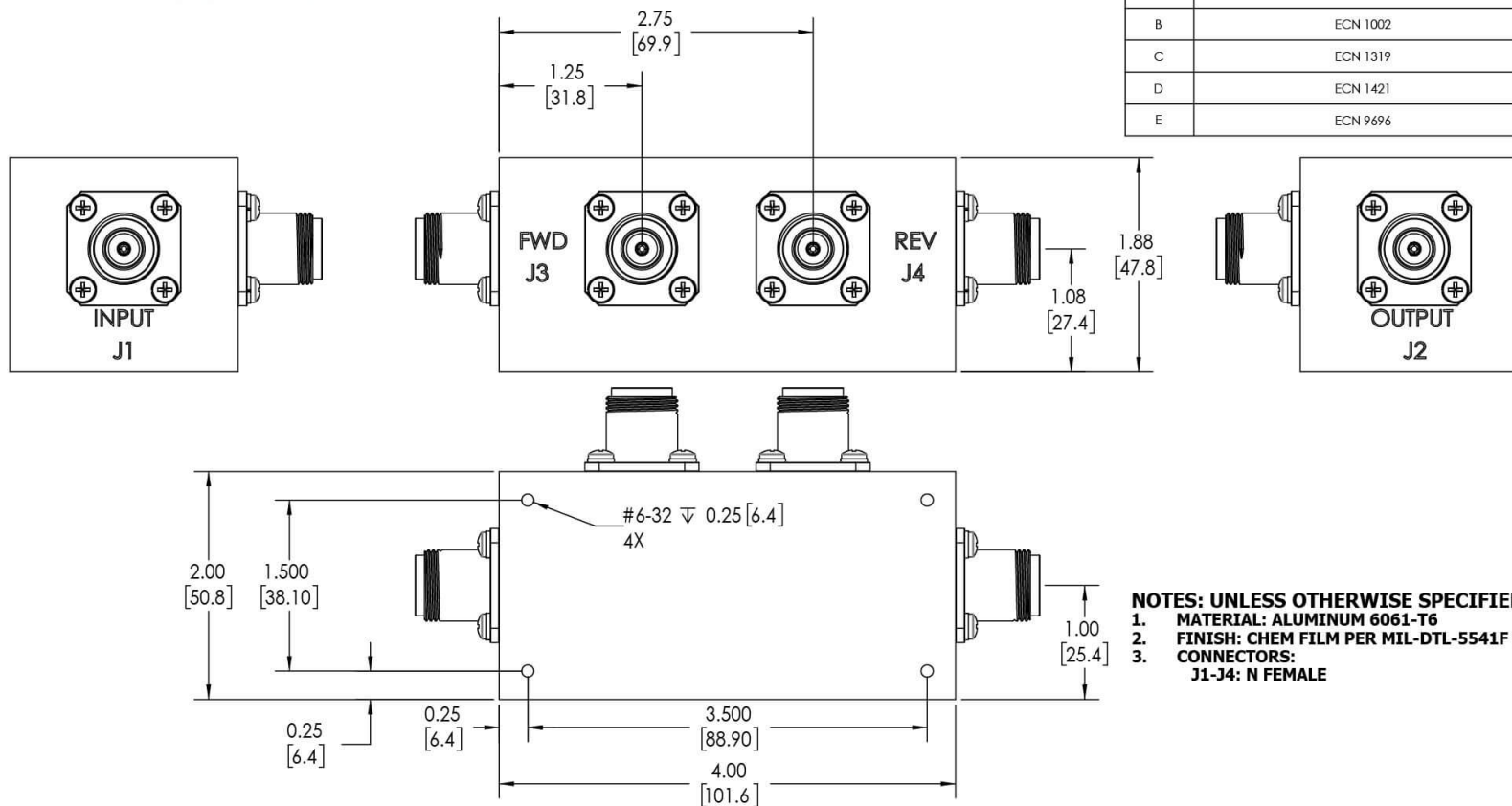


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1001	10/86	GW
B	ECN 1002	6/92	DK
C	ECN 1319	4/95	CS
D	ECN 1421	12/96	CS
E	ECN 9696	11/18	RB



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		DWN DATE SD 2/11/2019	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH THE FOLLOWING DIMENSIONS ARE IN INCHES		CHR DATE			
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSING TOLERANCES:		CS 2/11/2019		TITLE	
		ANGLES = ± 3 PL. ± .005 [13] 2 PL. ± .015 [38]		ENGR DATE			
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		MFRG DATE			
		CONCENTRICITY MACHINED DIA. .002 FIN MACHINE TOOL, PROJECTION .001 MAX.		QA DATE			
NEXT ASSY	USED ON			RLSE DATE	SIZE CASE CODE DWG NO	REV	E
APPLICATION		THIRD ANGLE PROJECTION		SCALE	1:1	SHEET 1 OF 1	

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