



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, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

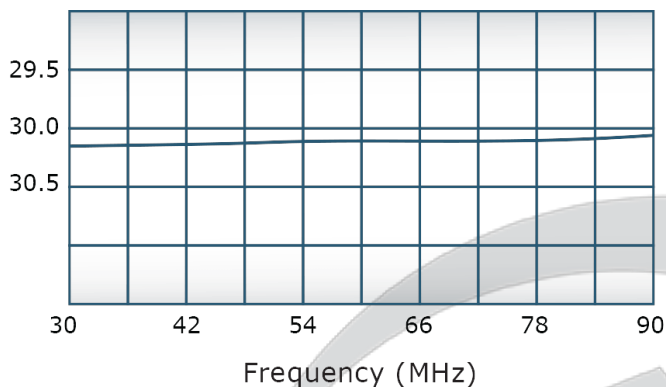


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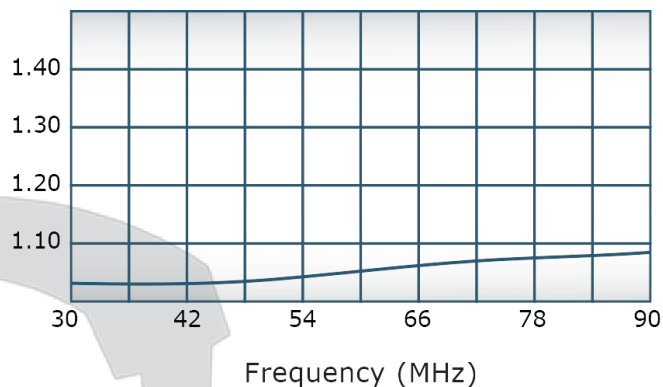
C5522

Performance Data (Specifications subject to change without notice):

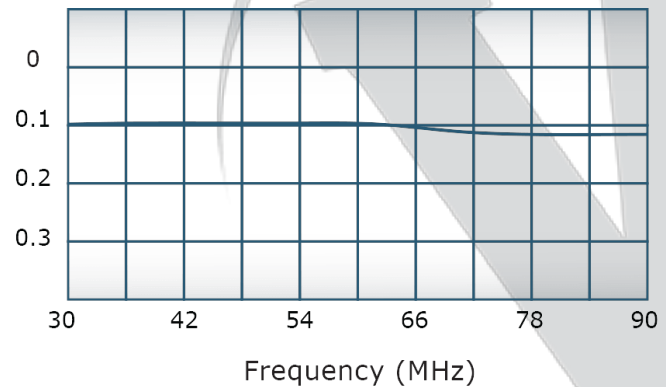
Coupling:



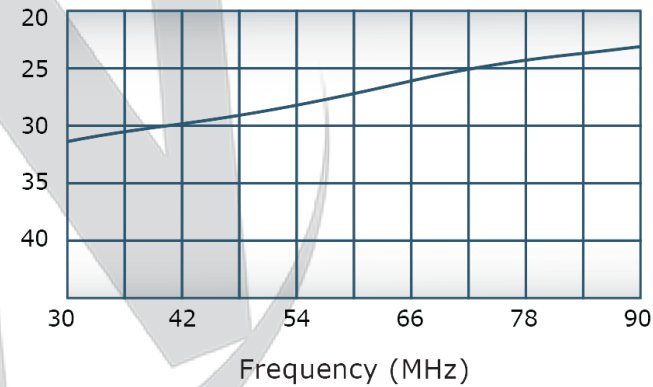
VSWR:



Insertion Loss:



Directivity:

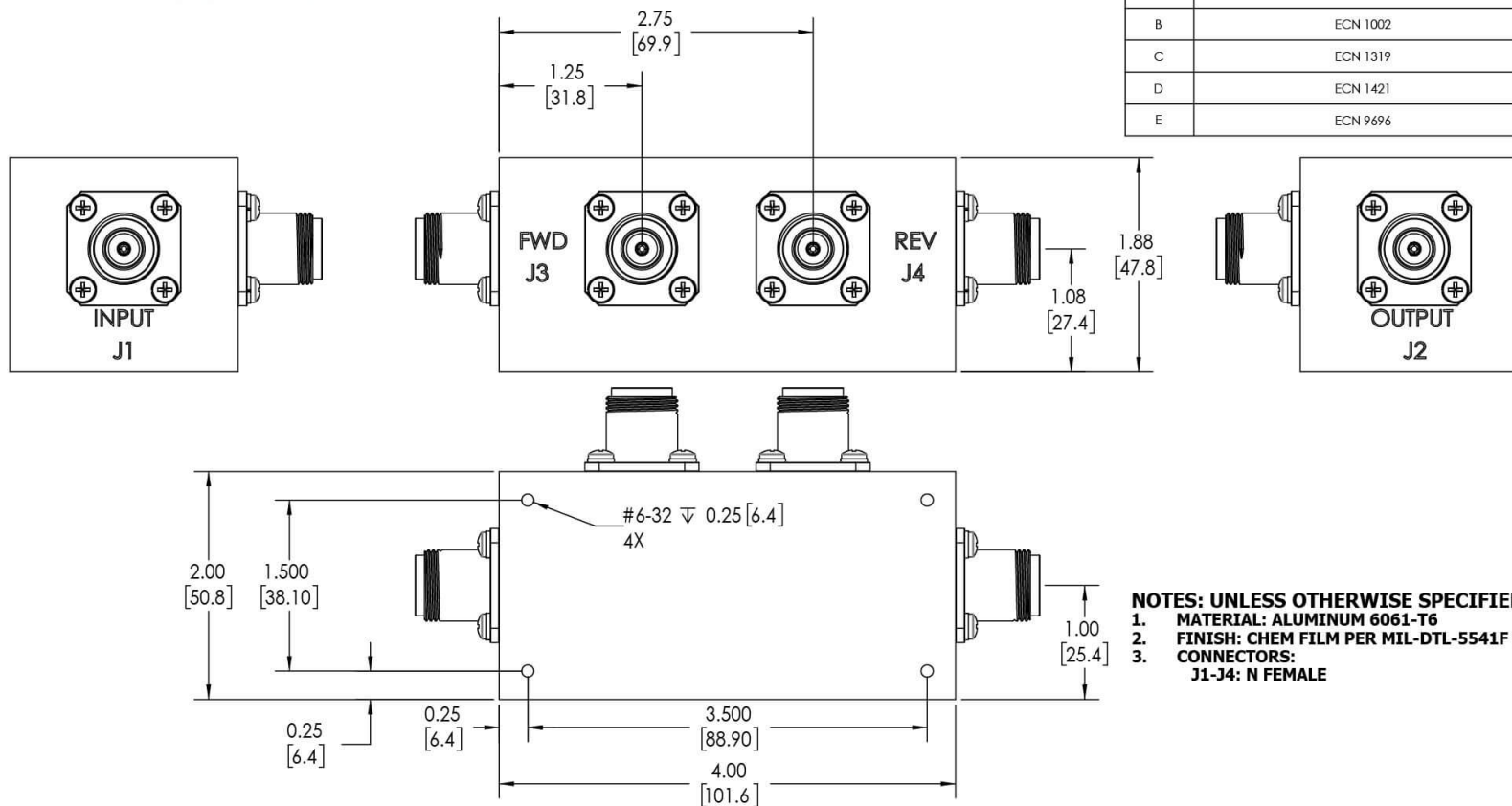


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1001	10/86	GW
B	ECN 1002	6/92	DK
C	ECN 1319	4/95	CS
D	ECN 1421	12/96	CS
E	ECN 9696	11/18	RB



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

NEXT ASSY USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN ACCORDANCE WITH THE FOLLOWING: DIMENSIONS IN PARENTHESIS ARE FOR INFORMATION ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSING TOLERANCES: ANGLES = ± 1° 3 PL. ± .005 (13) 2 PL. ± .015 (3) REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIN MACHINE TOOL, PROJECTION .001 MAX		DWN DATE SD 2/11/2019 CHR DATE CS 2/11/2019 ENGR DATE MFRGR DATE QA DATE RLSE DATE		 WERLATONE SINCE 1965 TITLE <h1>OUTLINE</h1> SIZE CASE CODE DWG NO SCALE 1:1 10018-500 SHEET 1 OF 1		17 Jon Barrett Rd Patterson, NY 12563	
		THIRD ANGLE PROJECTION							

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