
**PRODUCT DATA SHEET**
**C6238**

**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:**

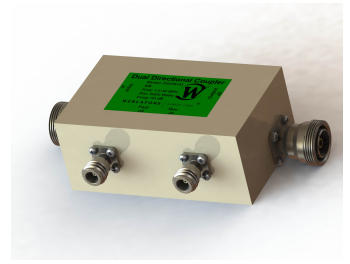
Frequency:            1.5 - 30 MHz  
 Power:                5000 W CW  
 Coupling:             50 ± 1.0 dB Max.  
 Insertion Loss:      0.05 dB Max.  
 Flatness:             ± 0.3 dB Max.  
 VSWR (ML):         1.10:1 Max.  
 Directivity:           20 dB Min.

**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:                    5.0 x 3.0 x 2.24"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6238-10	N Female	N Female	N Female	N Female
C6238-12	N Female	N Female	SMA	SMA
C6238-13	N Female	N Female	BNC	BNC
C6238-20	7/16 Female	7/16 Female	N Female	N Female
C6238-30	LC Female	LC Female	N Female	N Female
C6238-33	LC Female	LC Female	BNC	BNC
C6238-QC-0	QC Block	QC Block	N Female	N Female
C6238-QC-2	QC Block	QC Block	SMA	SMA
C6238-QC-3	QC Block	QC Block	BNC	BNC
C6238-61	HN Female	HN Female	N Female	N Female
C6238-62	HN Female	HN Female	N Male	N Male

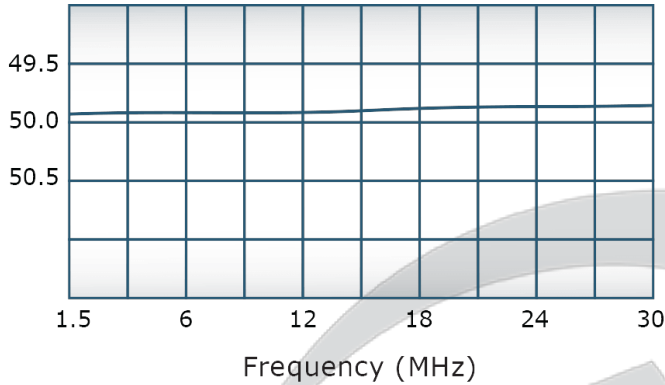


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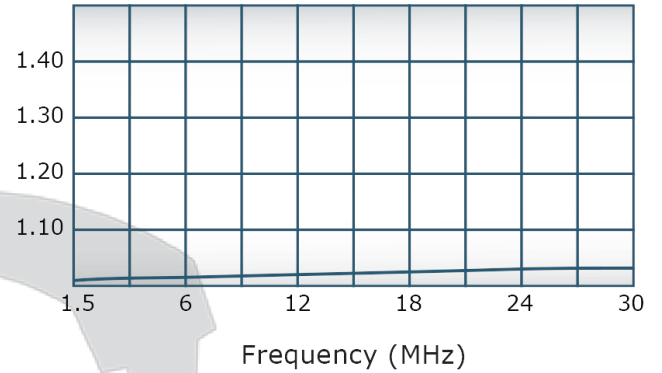
C6238

**Performance Data (Specifications subject to change without notice):**

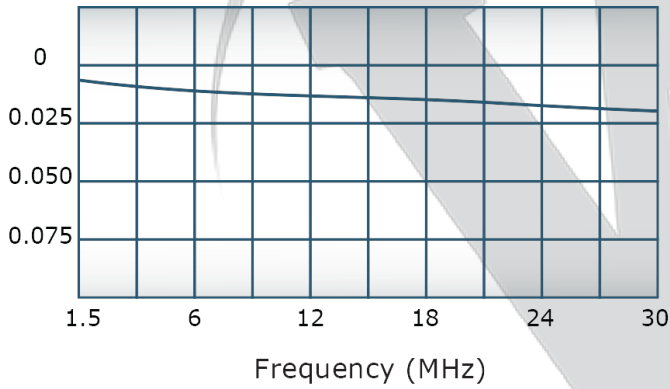
Coupling:



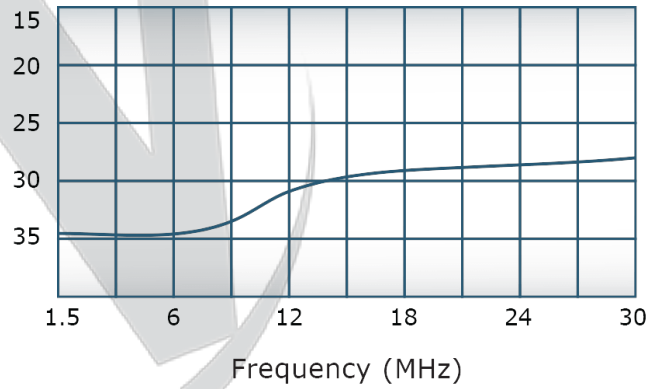
VSWR:



Insertion Loss:



Directivity:



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Werlatone, Inc.

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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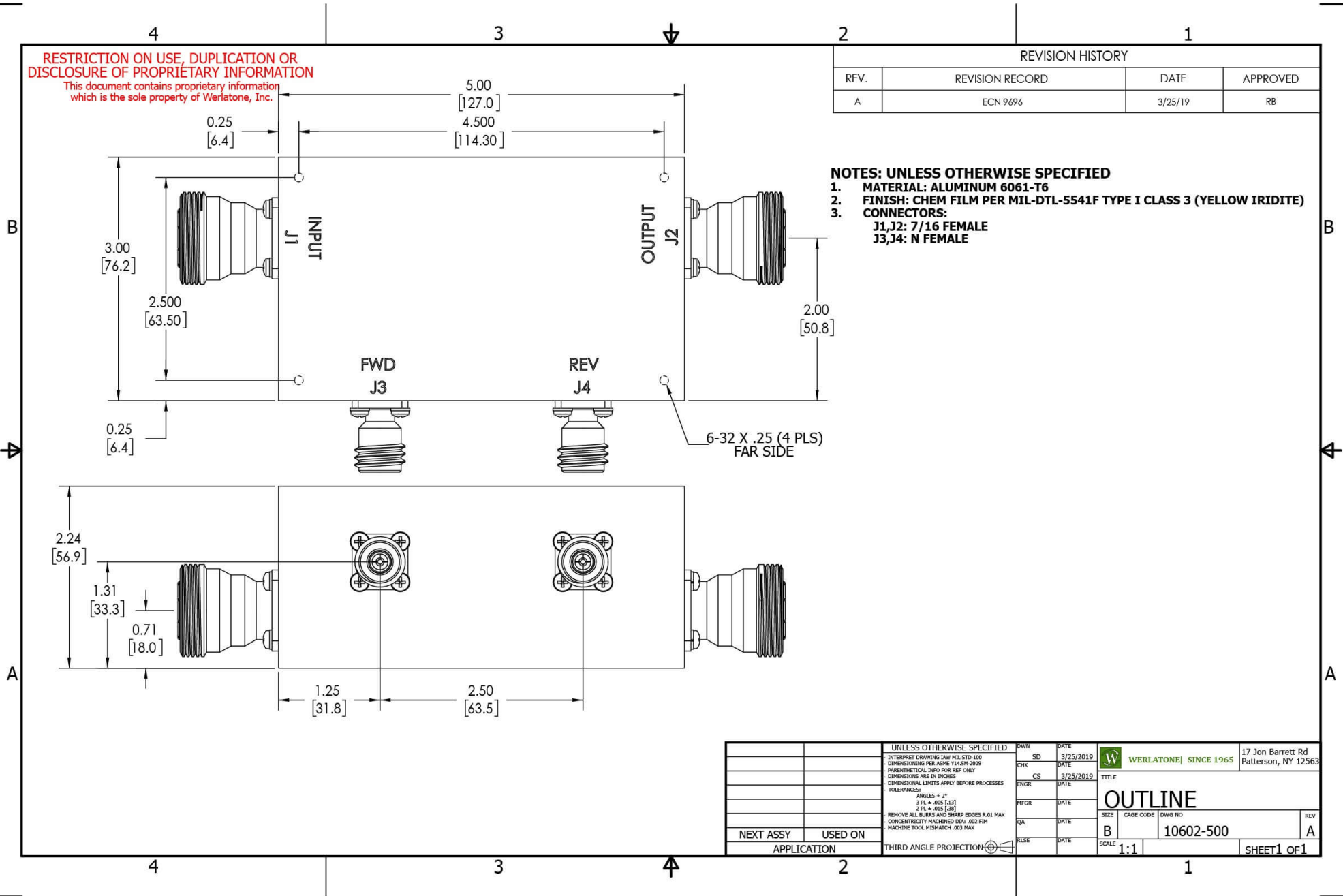
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	3/25/19	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
J1,J2: 7/16 FEMALE  
J3,J4: N FEMALE**



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	3/25/2019	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY		CS	3/25/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	<b>OUTLINE</b>
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	
TOLERANCES:		QA	DATE	SIZE
ANGLES ± 2°		RLSE	DATE	CAGE CODE
3 PL ± .005 [13]				DWG NO
2 PL ± .015 [38]				REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				B
CONCENTRICITY MACHINED DIA: .002 FIM				10602-500
MACHINE TOOL MISMATCH .003 MAX.				A
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SCALE
				1:1
APPLICATION				SHEET 1 OF 1

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