
**PRODUCT DATA SHEET**
**C6222**

**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: 25 - 500 MHz  
Power: 5,250 W CW  
Coupling: 60 ± 1.0 dB Max.  
Insertion Loss: 0.05 dB Max.  
Flatness: ± 0.35 dB Max.  
VSWR (ML): 1.15:1 Max.  
Directivity: 30 dB Min.

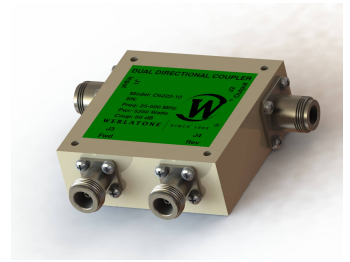
**Mechanical Specifications:**

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: 3.0 x 3.0 x 1.09"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6222-10	N Female	N Female	N Female	N Female
C6222-12	N Female	N Female	SMA	SMA
C6222-20*	7/16 Female	7/16 Female	N Female	N Female
C6222-22*	7/16 Female	7/16 Female	SMA	SMA
C6222-23*	7/16 Female	7/16 Female	BNC	BNC
C6222-30*	LC Female	LC Female	N Female	N Female
C6222-43	SC Female	SC Female	SMA	SMA
C6222-48	SC Female	SC Male	N Female	N Female
C6222-64	HN Female	HN Female	BNC	BNC
C6222-71*	7/8" EIA	7/8" EIA	N Female	N Female
C6222-481	SC Male	SC Female	N Female	N Female

\*Starred options are 3.0 x 3.0 x 1.59"

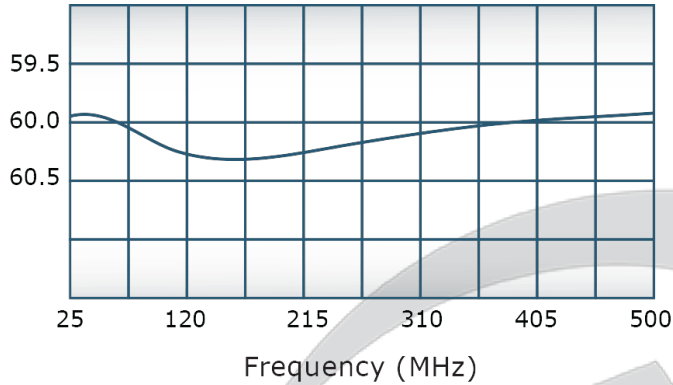


## PRODUCT DATA SHEET

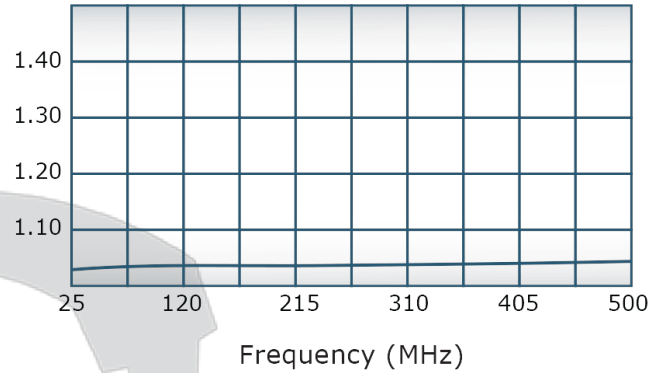
C6222

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

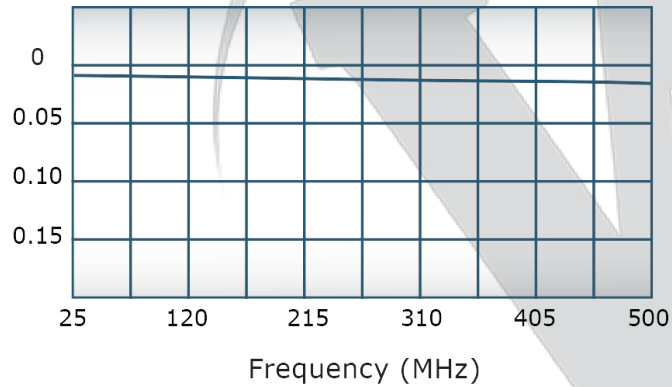
Coupling:



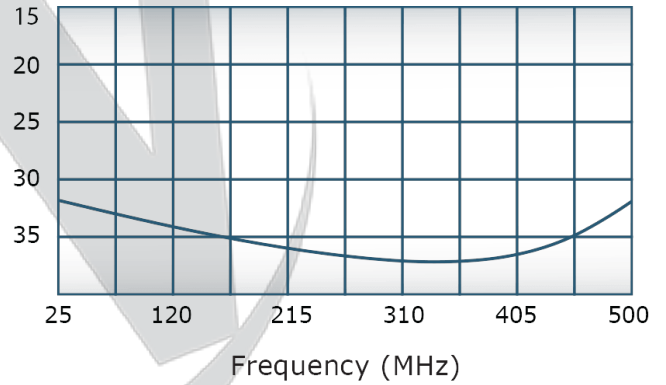
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL\_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	<div><div></div><div>WERLATONE SINCE 1965</div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		<ul style="list-style-type: none"><li>• INTERPRET DRAWING JAW MIL-STD-100</li><li>• DIMENSIONING PER ASME Y14.5M-2009</li><li>• PARENTHESES FOR REF ONLY</li><li>• DIMENSIONS ARE IN INCHES</li><li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li><li>• TOLERANCES:     ANGLES ± 2°     3 PL. ± .005 [1.3]     2 PL. ± .015 [3.8]</li><li>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</li><li>• CONCENTRICITY MACHINED DIA: .002 FIM</li><li>• MACHINE TOOL MISMATCH: .003 MAX</li></ul>		CHK	DATE		
				ENGR	DATE	<div>TITLE</div> <div>OUTLINE</div> <div>SIZE CAGE CODE DWG NO</div> <div>B 10379-505</div>	
				MFG	DATE		
				QA	DATE	<div>SCALE</div> <div>1:1</div> <div>SHEET 1 OF 1</div>	
				DATE	DATE		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 					
APPLICATION							

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