
**PRODUCT DATA SHEET**
**C6338**

**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: 80 - 1000 MHz  
Power: 2500 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.1 dB Max.  
Flatness:  $\pm 0.3$  dB Max.  
VSWR (ML): 1.20:1 Max.  
Directivity: 20 dB Min.

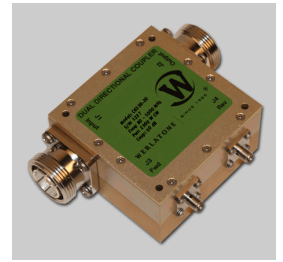
**Mechanical Specifications:**

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: 3.0 x 3.0 x 1.59"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6338-20	7/16 Female	7/16 Female	N Female	N Female
C6338-22	7/16 Female	7/16 Female	SMA	SMA
C6338-23	7/16 Female	7/16 Female	BNC	BNC
C6338-41*	SC Female	SC Female	N Female	N Female
C6338-43*	SC Female	SC Female	SMA	SMA
C6338-73	7/8" EIA	7/8" EIA	SMA	SMA
C6338-627	7/16 Female	7/16 Male	N Female	N Female
C6338-727	7/16 Male	7/16 Female	N Female	N Female
C6338-728	7/16 Male	7/16 Female	SMA	SMA

(SC-F Main Line connector option decreases size to 3.0 x 3.0 x 1.09")

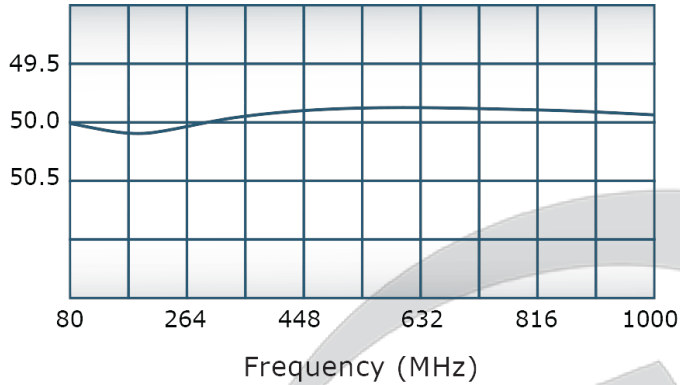


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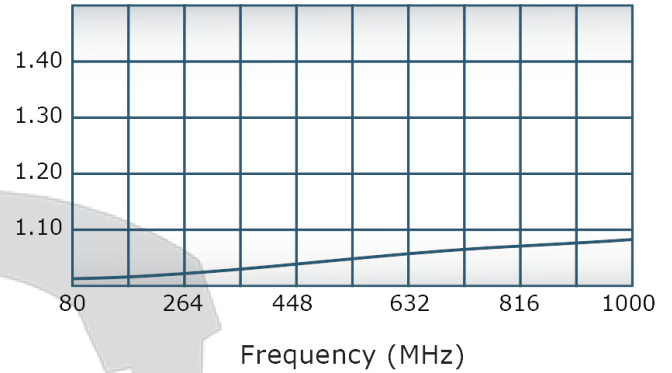
C6338

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

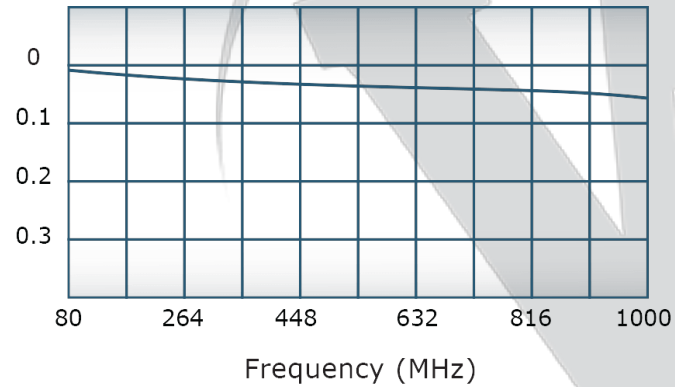
Coupling:



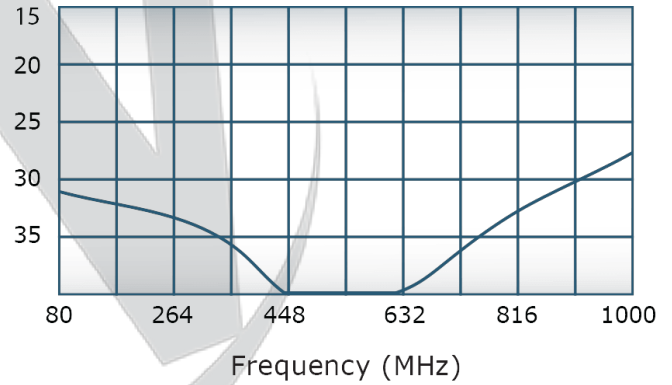
VSWR:



Insertion Loss:



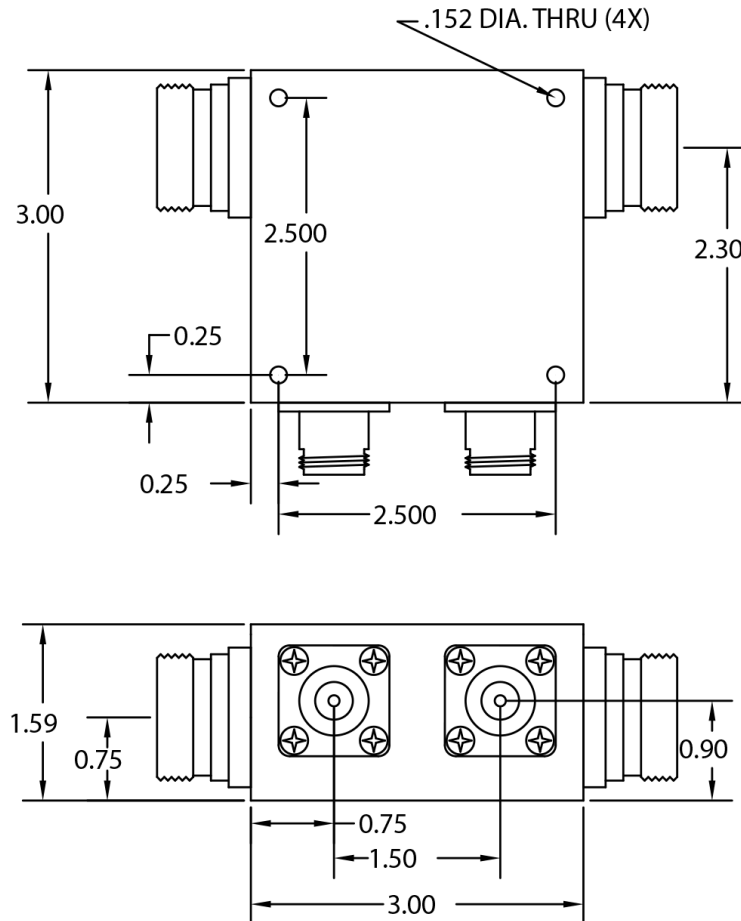
Directivity:



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