
**PRODUCT DATA SHEET**
**C10762**

**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: 1000 - 6000 MHz  
Power: 300 W CW  
Coupling:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
VSWR (ML): 1.30:1 Max. (1.35:1 Max. with 7/16 ML connectors)  
Directivity: 15 dB Min.

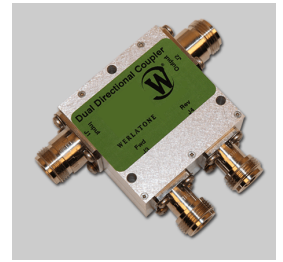
**Mechanical Specifications:**

Type: Connectorized  
Material: Aluminum 6061-T6  
Surface Finish: Chem. Film Per MIL-DTL-5541F  
Type II Class 3 (Clear Iridite)  
RoHS Compliant Available  
Operating Temperature: -55°C to +75°C  
Storage Temperature: -60°C to +85°C  
Humidity: 95% Non-Condensing  
Size: 2.0 x 2.0 x 1.06"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10762-10	N Female	N Female	N Female	N Female
C10762-12	N Female	N Female	SMA	SMA
C10762-14	N Male	N Male	N Female	N Female
C10762-20*	7/16 Female	7/16 Female	7/16 Female	7/16 Female
C10762-22*	7/16 Female	7/16 Female	SMA	SMA
C10762-612	N Female	N Male	SMA	SMA
C10762-714	N Male	N Female	N Female	N Female
C10762-727*	7/16 Male	7/16 Female	N Female	N Female

\*Starred options are 3.0 x 3.0 x 1.36"

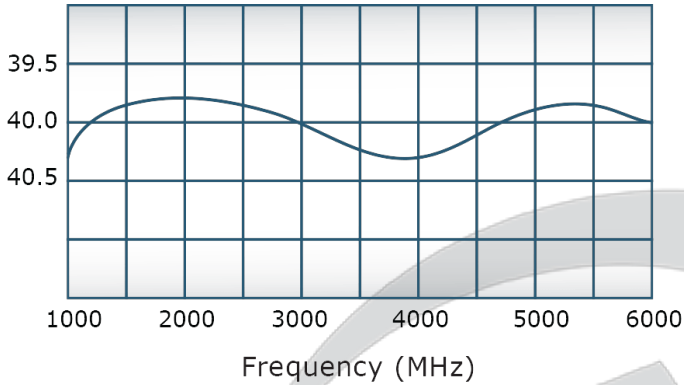


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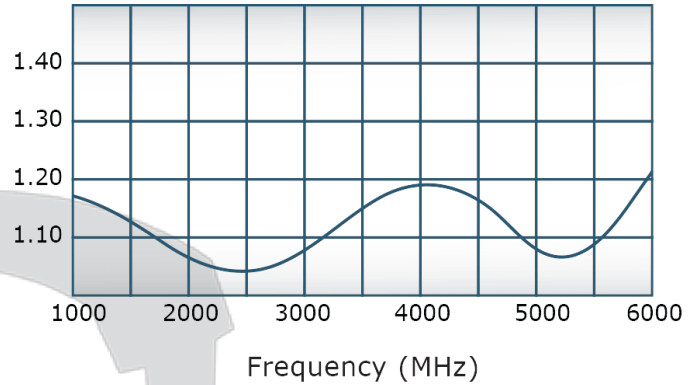
C10762

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

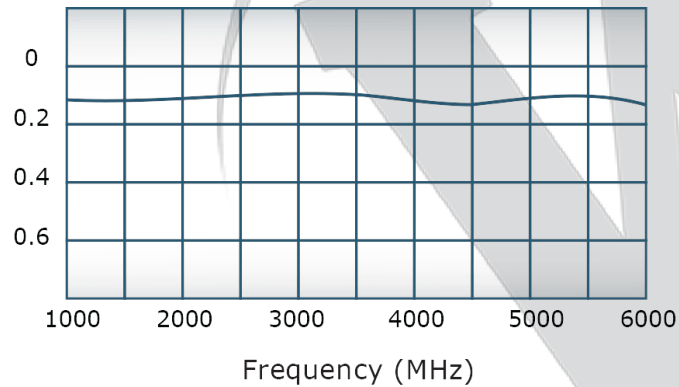
Coupling:



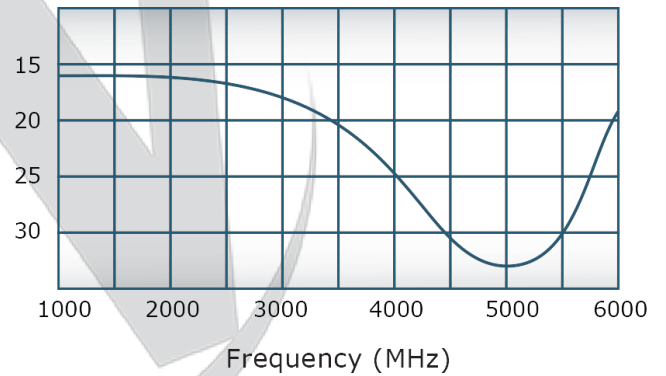
VSWR:



Insertion Loss:

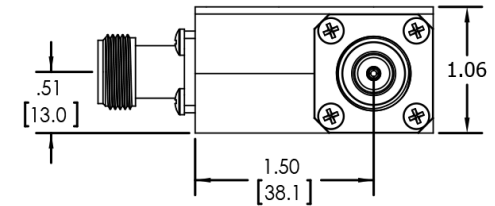
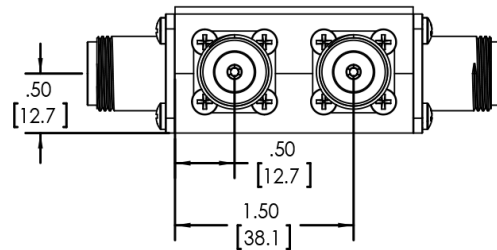
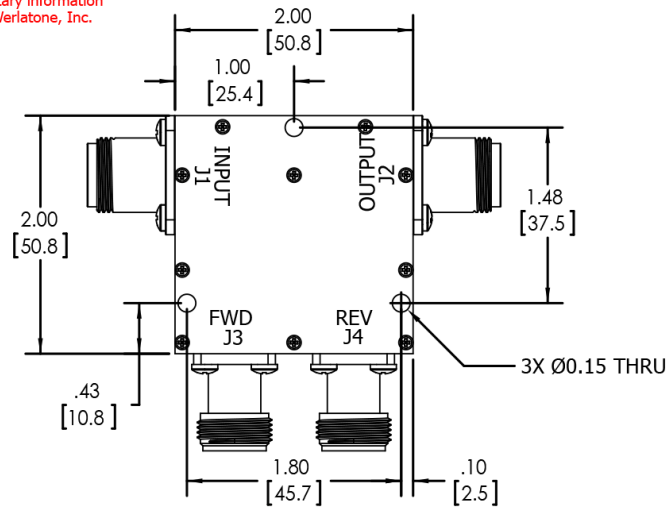


Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		



UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS ARE IN INCHES (mm) DIMENSIONS ARE IN INCHES (mm) DIMENSIONAL LIMITS APPLY BEFORE FINISHES TOLERANCES: ANGLES ± 2° 3 PL ± .005 (13) 2 PL ± .015 (4) REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		DATE	9/30/2014	17 Jon Barrett Rd Patterson, NY 12563
		SC	9/30/2014	
		CHK	9/30/2014	
		CS	9/30/2014	
C10117 USED ON APPLICATION		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
THIRD ANGLE PROJECTION		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
OUTLINE SIZE CAGE CODE DWG NO B 28812 21250-500		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
SCALE 1:1 SHEET 1 OF 1		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	
		DATE	9/30/2014	

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