
**PRODUCT DATA SHEET**
**C10526**

**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: 700 - 6000 MHz  
Power: 300 W CW  
Coupling:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 1.0$  dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 15 dB Min.

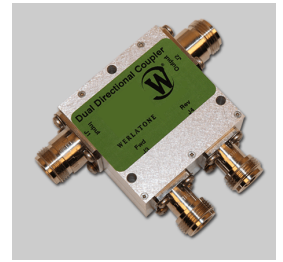
**Mechanical Specifications:**

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: 2.0 x 2.0 x 1.06"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10526-10	N Female	N Female	N Female	N Female
C10526-12	N Female	N Female	SMA	SMA
C10526-714	N Male	N Female	N Female	N Female

**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.

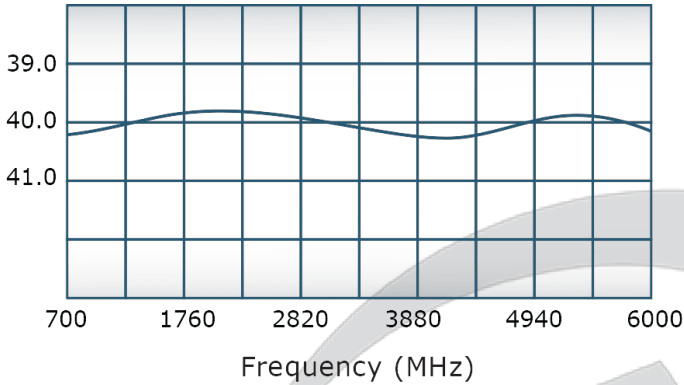


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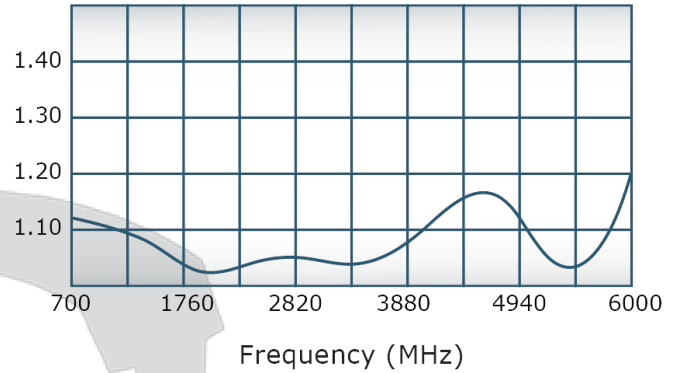
C10526

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

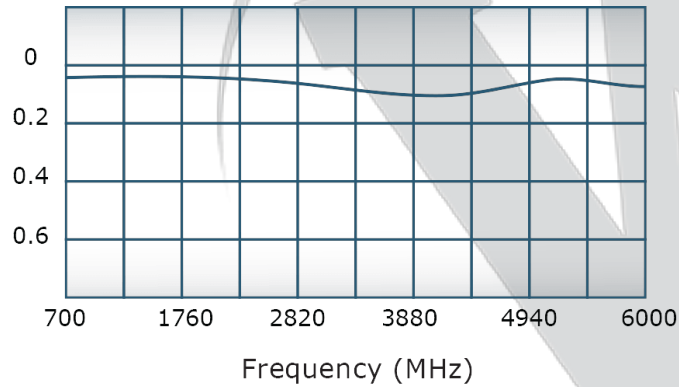
Coupling:



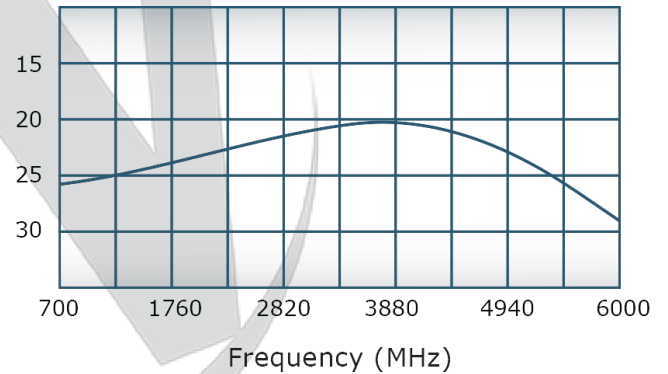
VSWR:



Insertion Loss:



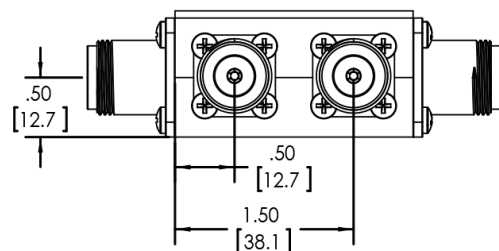
Directivity:






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UNLESS OTHERWISE SPECIFIED		DWG	DATE	 WERLATON® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH DIMENSIONS PER ASME Y14.5-2009 DIMENSIONAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES (mm)		SC	9/30/2014			
DIMENSIONAL LIMITS APPLY BEFORE PRECISION TOLERANCES.		CR	DATE			
ANGLES ± .005 [13] 3 PL ± .005 [13] 2 PL ± .015 [4]		CS	9/30/2014		TITLE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MAXIMUM DIA .002 FIM MACHINE TOOL FINISH .003 MAX		SV	DATE	 WERLATON® SINCE 1965		
		BW	9/30/2014			
		QA	DATE			
		REL	DATE			


 WERLATON® SINCE 1965

OUTLINE


SIZE	CAGE CODE	DWG NO	REV
B	28812	21250-500	-

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