


**PRODUCT DATA SHEET**
**C10761**

**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:                600 W CW  
 Coupling:            40 ± 1.0 dB Max.  
 Insertion Loss:      0.2 dB Max.  
 Flatness:             ± 0.5 dB Max.  
 VSWR (ML):        1.35:1 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:                    2.15 x 2.0 x 1.36"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10761-20	7/16 Female	7/16 Female	7/16 Female	7/16 Female
C10761-22	7/16 Female	7/16 Female	SMA	SMA
C10067-727	7/16 Male	7/16 Male	7/16 Female	7/16 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.

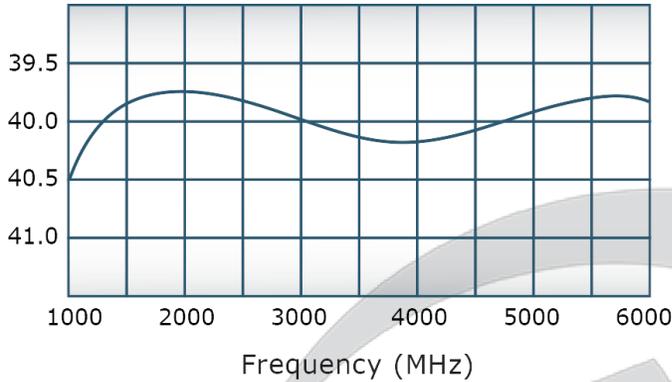


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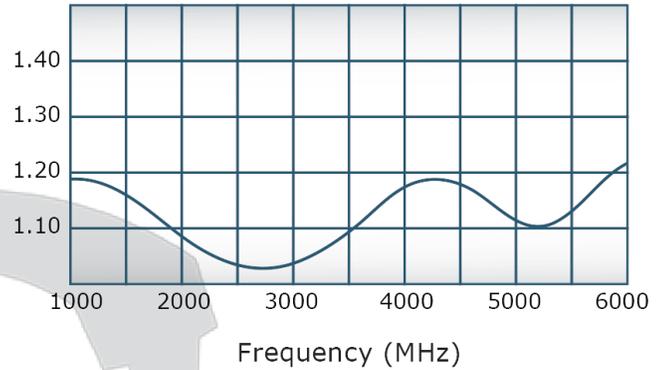
C10761

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

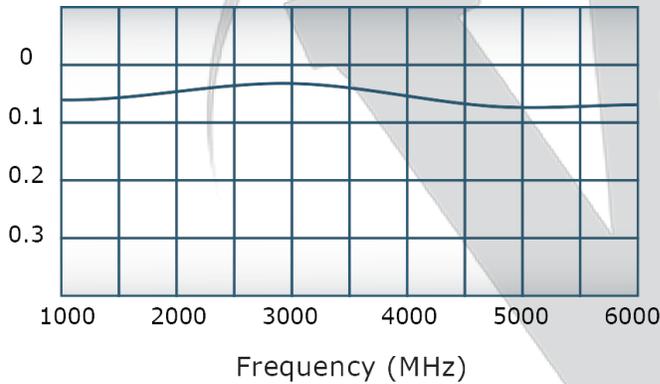
Coupling:



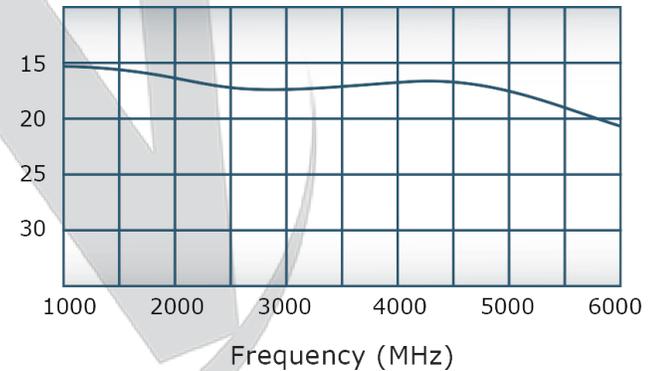
VSWR:



Insertion Loss:



Directivity:



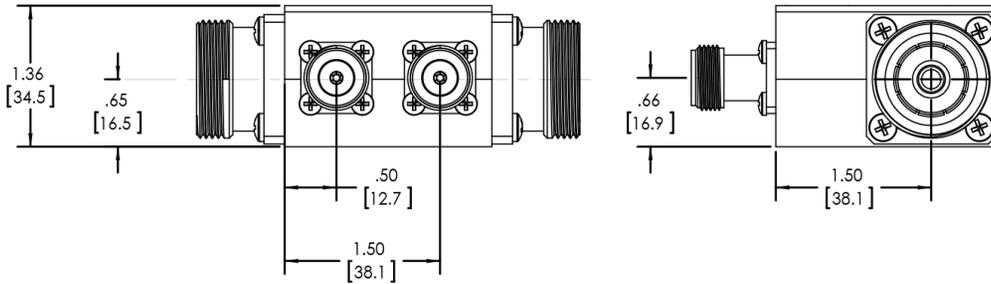
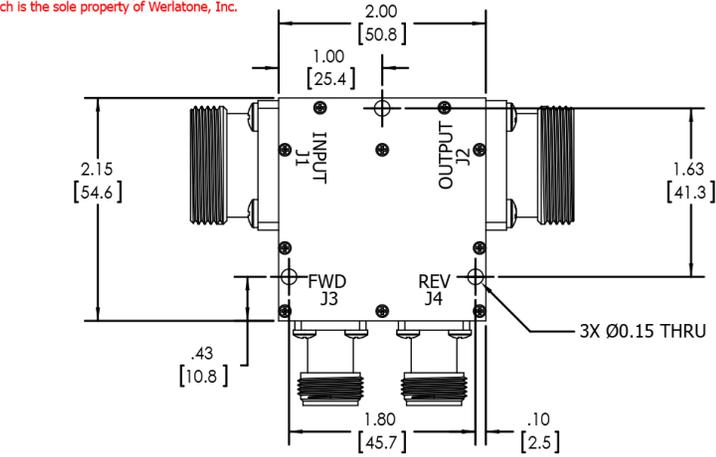
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Werlatone, Inc.

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW



UNLESS OTHERWISE SPECIFIED		DATE	PLP	5/4/2015	<b>WERLATONE SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING PER MIL-STD-100		DATE	CHK	CS	
DIMENSIONS PER ASME Y14.9M-2009		DATE	DRGR	DATE	TITLE
DIMENSIONS ARE IN INCHES (mm)		DATE	QA	DATE	SIZE
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		DATE	RELSE	DATE	CAGE CODE
TOLERANCES:		DATE		DATE	DWG NO
ANGLES ± 2°		DATE		DATE	REV
3 PL ± .005 [13]		DATE		DATE	
2 PL ± .015 [4]		DATE		DATE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE		DATE	
CONCENTRICITY MACHINED DIA. .002 FPM		DATE		DATE	
MACHINE TOOL MISMATCH .003 MAX		DATE		DATE	
NEXT ASSY	USED ON	SCALE	1:1		
APPLICATION	THIRD ANGLE PROJECTION				

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