

PRODUCT DATA SHEET
C11161

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: 0.01 - 1000 MHz
Power: 1000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.45 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 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: 6.7 x 2.63 x 2.2"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C11161-20	7/16 Female	7/16 Female	N Female	N Female
C11161-41	SC Female	SC Female	N Female	N Female
C11161-43	SC Female	SC Female	SMA	SMA

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.

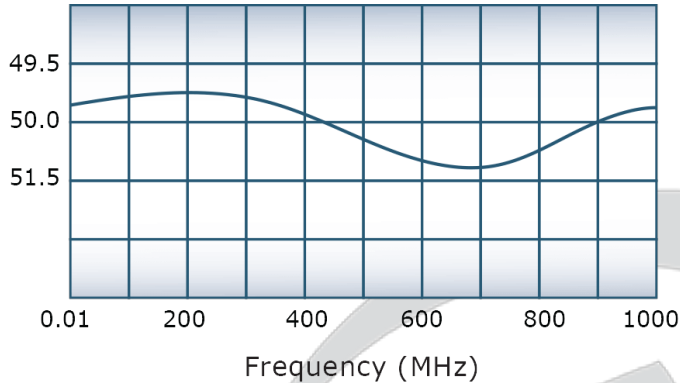


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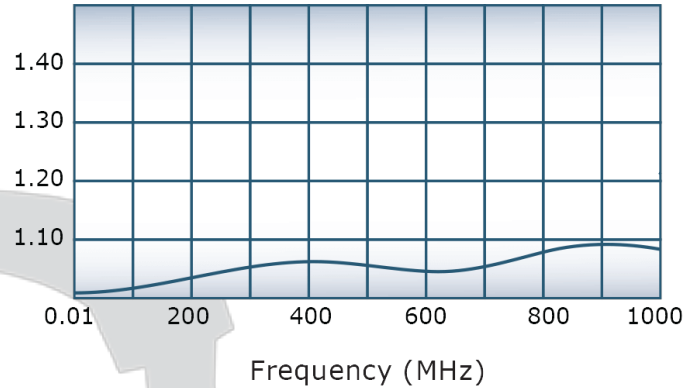
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Performance Data (Specifications subject to change without notice):

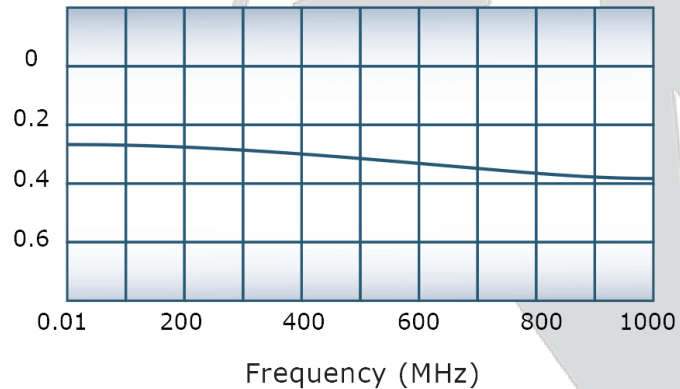
Coupling:



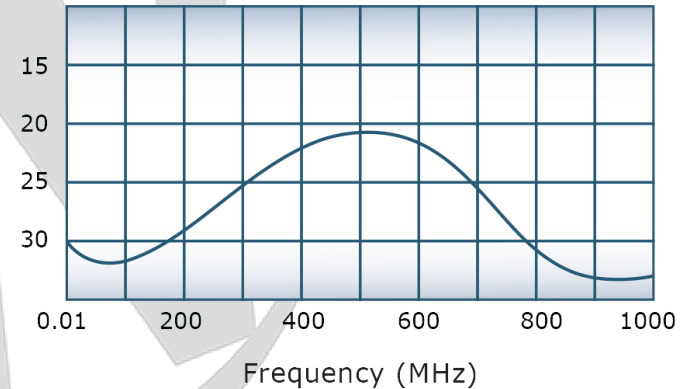
VSWR:



Insertion Loss:



Directivity:





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REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	6/20/2017	BW

		UNLESS OTHERWISE SPECIFIED		DATE	DATE	 WERLATON SINCE 1965	17 Jon Barrett Rd Patterson, NY 12554		
		• INTEREST DRAWING SAN-MEL-070-000	P.L.P	6/20/2017					
		• DIMENSIONS PER AISC 360-10A 2010	CHKS	DATE					
		• DIMENSIONAL LIMITS FOR SET ONLY	ENGR	6/20/2017	TITLE				
		• DIMENSIONS ARE IN INCHES (mm)				OUTLINE	SIZE	CAGE CODE	DWG NO
		• DIMENSIONAL CERTAINTY BEFORE PROCESS					B 28812	21531-500	
		• TOLERANCES:					SCALE	2:3	
		ANGLES ± 2°							
		3 PL ± .005 [32]							
		2 PL ± .015 [14]							
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
		• CONDUCTIVITY PACKAGED EXR AGC RPR							
		• MACHINE TOOL MACHINIST: GCJ/PAW							
NEXT ASSY	USED ON			FILE	DATE				
APPLICATION		THIRD ANGLE PROJECTION 						SHEET 1 OF 1	

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