

PRODUCT DATA SHEET

C5865

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: 500 - 1000 MHz
Power: 1000 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.25 dB Max.
VSWR (ML): 1.15:1 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 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5865-10	N Female	N Female	N Female	N Female
C5865-12	N Female	N Female	SMA	SMA
C5865-13	N Female	N Female	BNC	BNC
C5865-20*	7/16 Female	7/16 Female	N Female	N Female
C5865-22*	7/16 Female	7/16 Female	SMA	SMA
C5865-23*	7/16 Female	7/16 Female	BNC	BNC
C5865-41	SC Female	SC Female	N Female	N Female
C5865-727*	7/16 Male	7/16 Female	N Female	N Female
C5865-728*	7/16 Male	7/16 Female	SMA	SMA

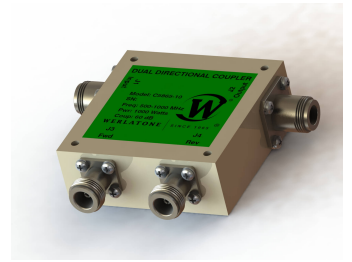
(7/16 Mainline connector option increases case height to 1.59")



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Model C5865

Connectorized Directional Couplers

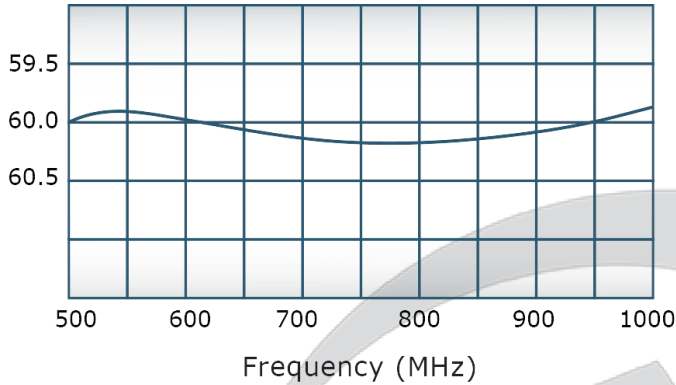


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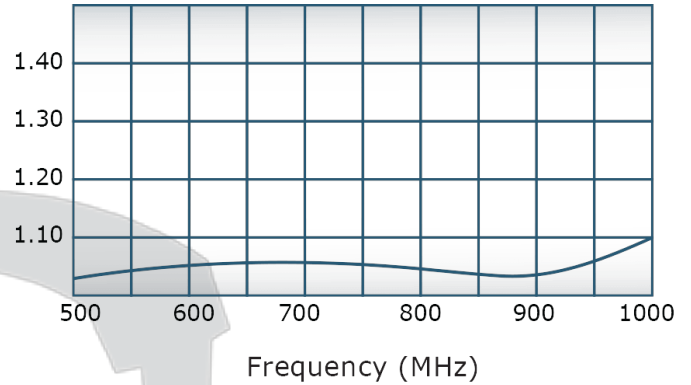
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Performance Data (Specifications subject to change without notice):

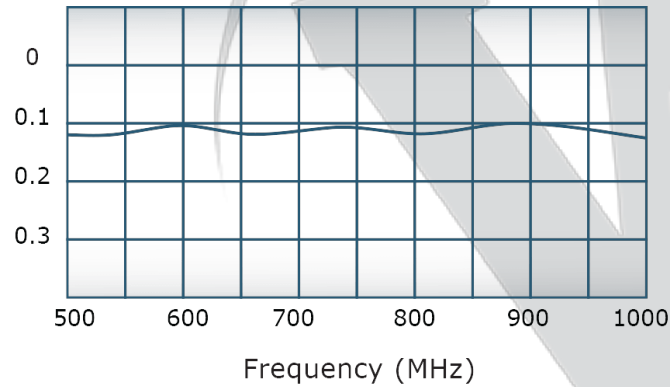
Coupling:



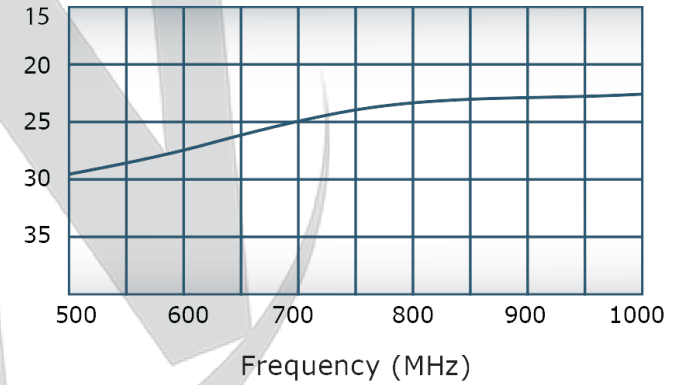
VSWR:



Insertion Loss:



Directivity:



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