


PRODUCT DATA SHEET
C8163W

3-Port Uni-Directional Coupler: Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 100 - 1000 MHz
 Power: 200 W CW
 Coupling: 6 ± 1.0 dB Max.
 Insertion Loss: 0.4 dB Max.
 Flatness: ± 1.0 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), Black
 Epoxy Paint / White Epoxy Lettering
 RoHS Compliant Available
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Humidity: 100% Condensing (O-Ring Sealed)
 Size: 7.0 x 5.0 x 1.8"
 Weight: 3 lbs.

Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C8163W-10	N Female	N Female	N Female

During normal operation, the uneven splitter will not require any heat dissipation. In the case of a failure in the cable connected to J2 or J3, however, the unit must be mounted to a heat spreader capable of dissipating 35 W CW.

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.

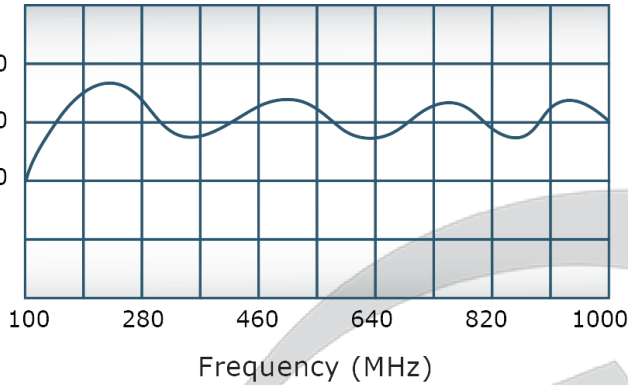
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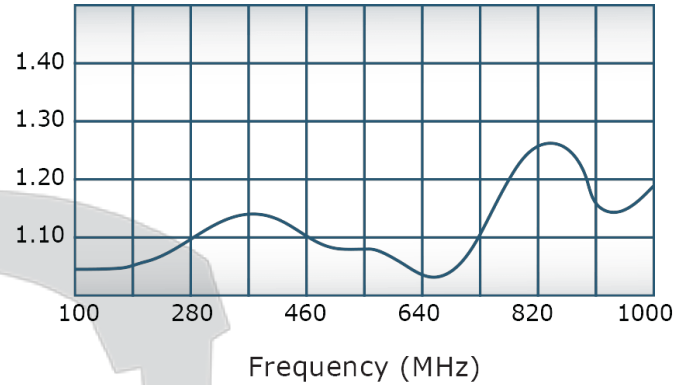


Performance Data (Specifications subject to change without notice):

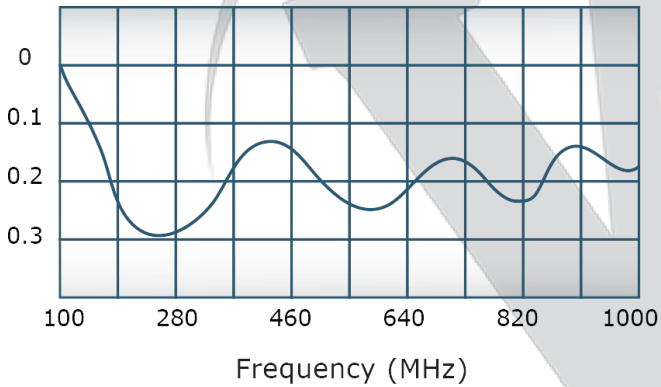
Coupling:



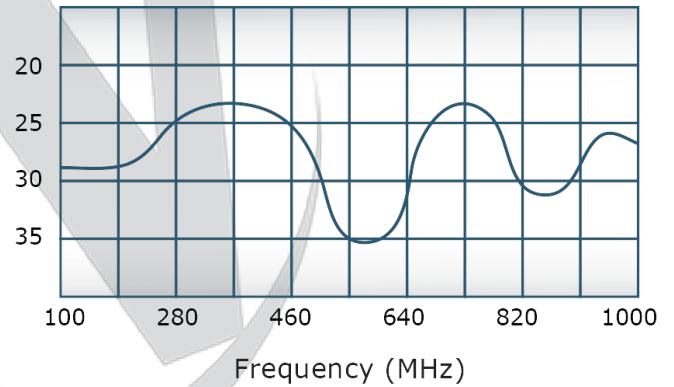
VSWR:



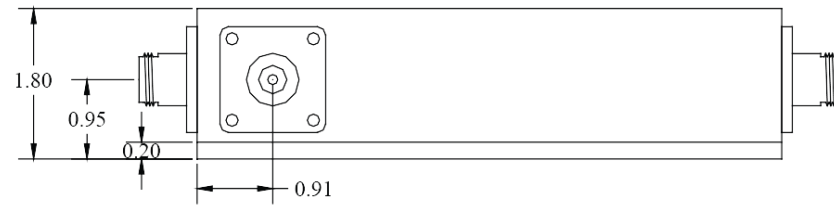
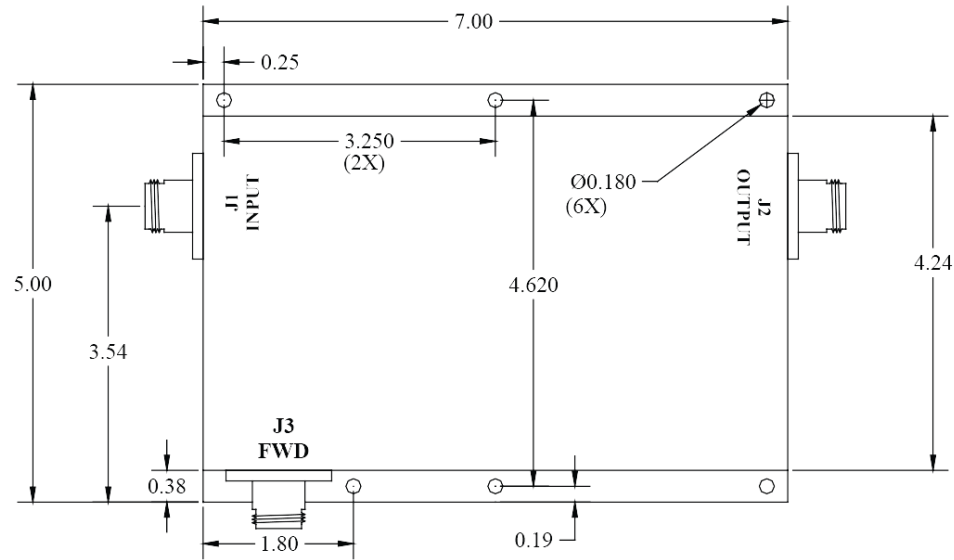
Insertion Loss:



Directivity:



DATE	SYM	REVISION RECORD	AUTH	DR	CK
2/24/04	REV.A	ECN:3434	RH		



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