WERLATONE

Model C3052
Connectorized Directional Couplers

PRODUCT DATA SHEET **C3052**

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 simultaneouly 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:	225 - 400 MHz
Power:	5000 W CW
Coupling:	50 ± 1.0 dB Max.
Flatness:	± 0.25 dB Max.
Insertion Loss:	0.1 dB Max.
VSWR (ML):	1.15:1 Max.
Directivity:	25 dB Min.

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Suface 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:	4" Line Section

Connector Configurations:

Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C3052-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C3052-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C3052-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

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.

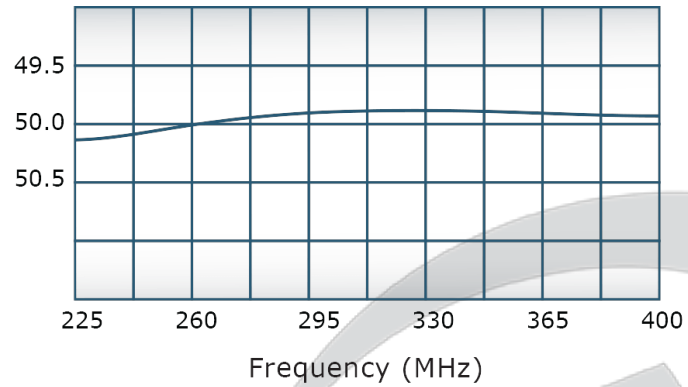
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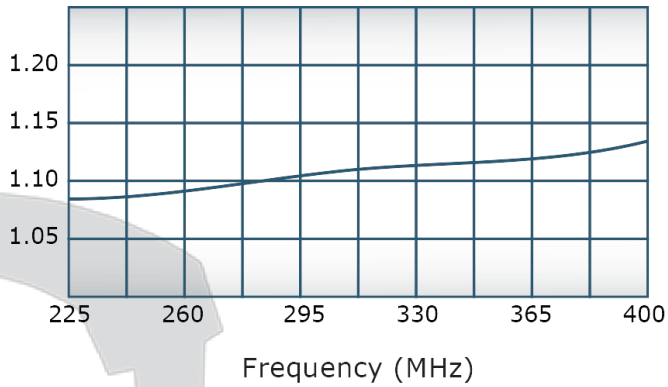
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Performance Data (Specifications subject to change without notice):

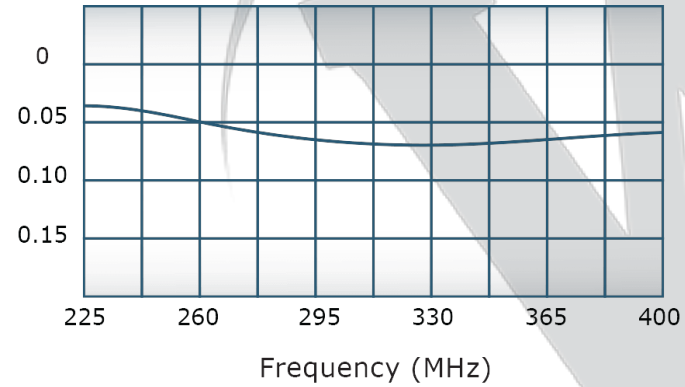
Coupling:



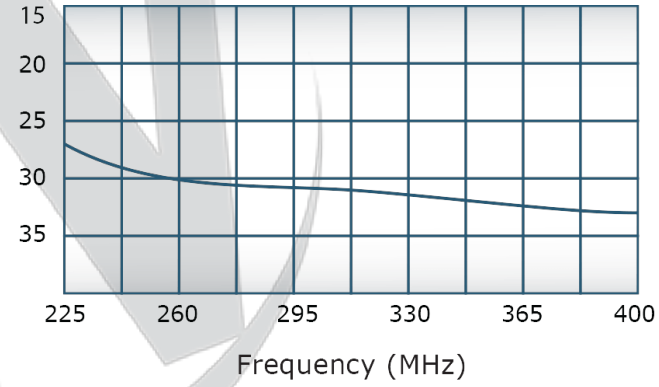
VSWR:



Insertion Loss:



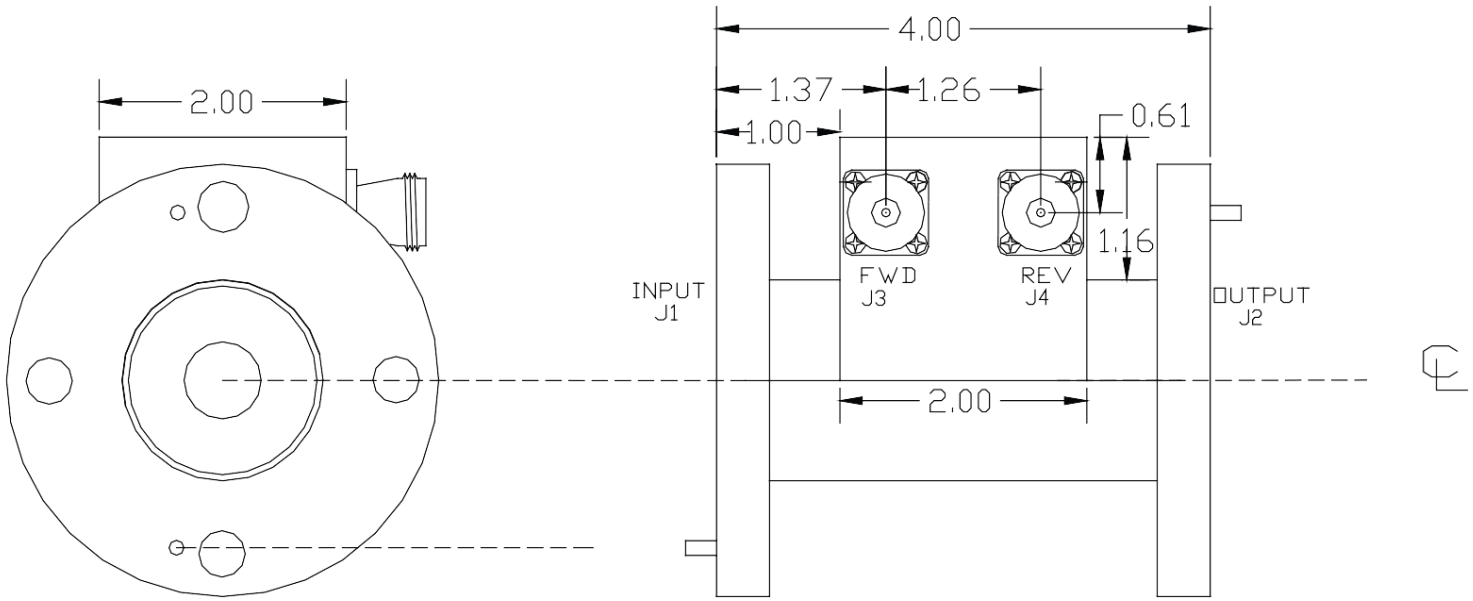
Directivity:



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