
PRODUCT DATA SHEET
C2702

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: 1 - 30 MHz
 Power: 15,000 W CW
 Coupling: 70 ± 1.0 dB Max.
 Insertion Loss: 0.05 dB Max.
 Flatness: ± 0.3 dB Max.
 VSWR (ML): 1.05:1 Max.
 Directivity: 35 dB Min.

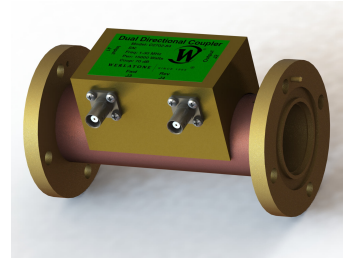
Mechanical Specifications:

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" Line Connector

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C2702-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C2702-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C2702-84	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.

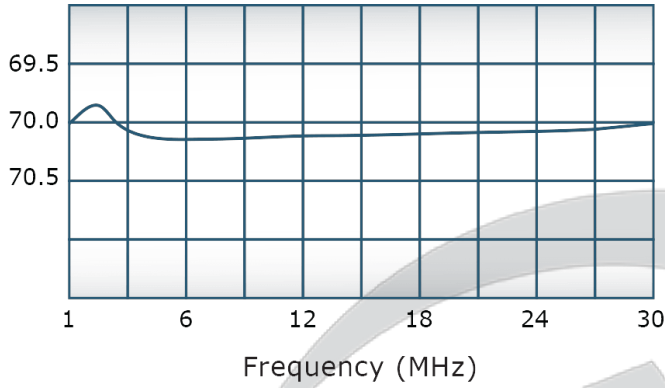


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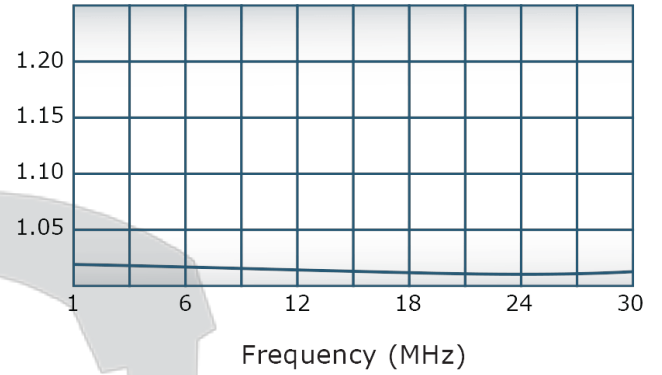
C2702

Performance Data (Specifications subject to change without notice):

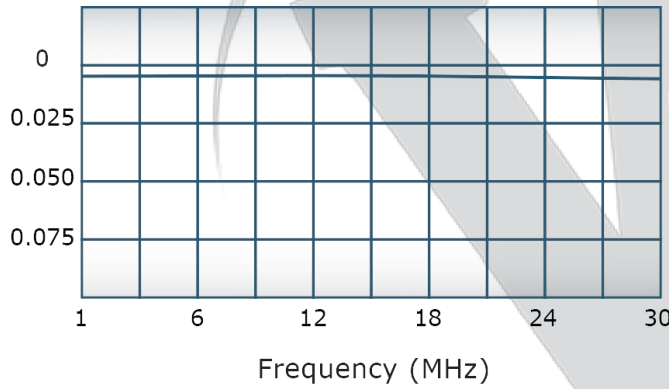
Coupling:



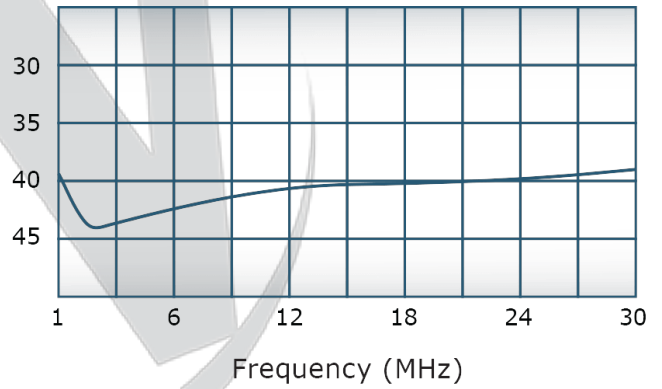
VSWR:



Insertion Loss:



Directivity:



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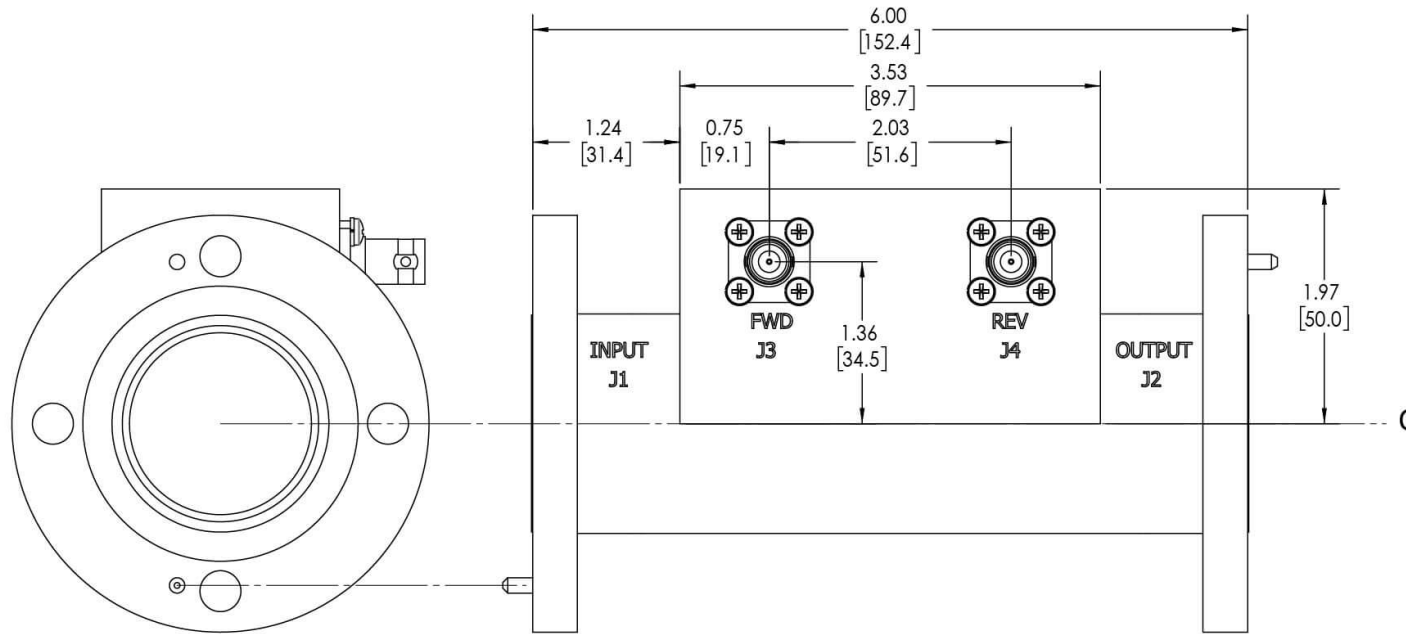
Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB

NOTES:
 1. **CONNECTORS:**
 J1, J2: 1 5/8 EIA STANDARD
 J3, J4: BNC FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	SD	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		CHK	DATE	CS	DATE	WERLATONE SINCE 1965
DIMENSIONS FOR ASME Y14.5M-2009		ENGR	DATE	DK	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY		INFR	DATE	QA	DATE	OUTLINE
DIMENSIONS ARE IN INCHES		RLSE	DATE	SCALE	DATE	SIZE CAGE CODE DWG NO
DIMENSIONAL LINES APPLY BEFORE PROCESSES		DATE	DATE	1:1	DATE	B 10093-500
TOLERANCES:		DATE	DATE	REV	DATE	A
ANGLES ± 2°		DATE	DATE	DATE	DATE	DATE
3 PL ± .005 [13]		DATE	DATE	DATE	DATE	DATE
2 PL ± .015 [38]		DATE	DATE	DATE	DATE	DATE
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	DATE	DATE	DATE	DATE
CONCENTRICITY MACHINED DIA: .002 FIM		DATE	DATE	DATE	DATE	DATE
MACHINE TOOL MISMATCH .003 MAX		DATE	DATE	DATE	DATE	DATE
NEXT ASSY	USED ON	DATE	DATE	DATE	DATE	DATE
APPLICATION	THIRD ANGLE PROJECTION	DATE	DATE	DATE	DATE	DATE

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