

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.

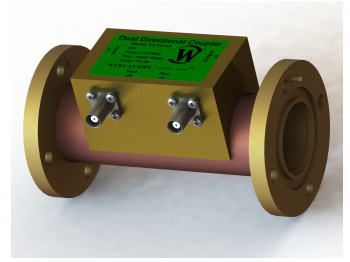
Mechanical Specifications:

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:

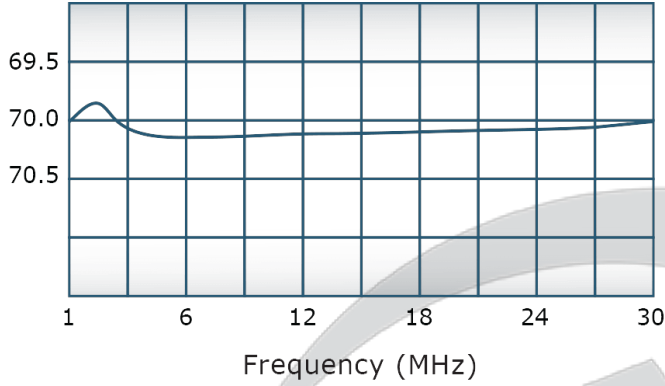
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C2702-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C2702-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C2702-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

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.

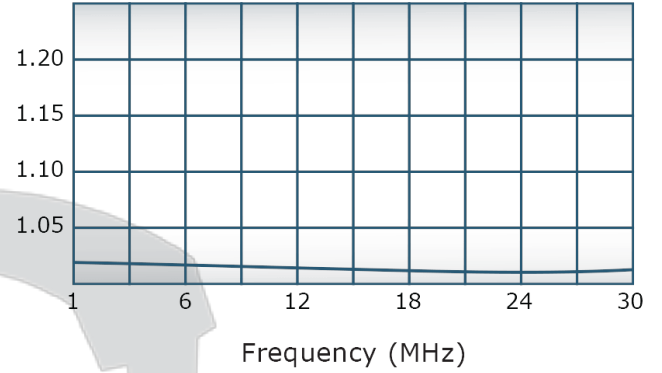


Performance Data (Specifications subject to change without notice):

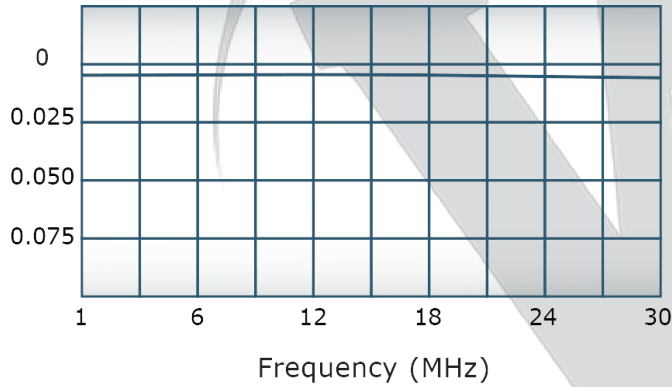
Coupling:



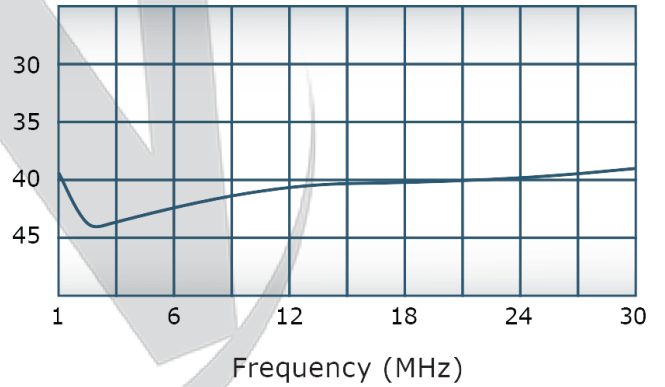
VSWR:



Insertion Loss:

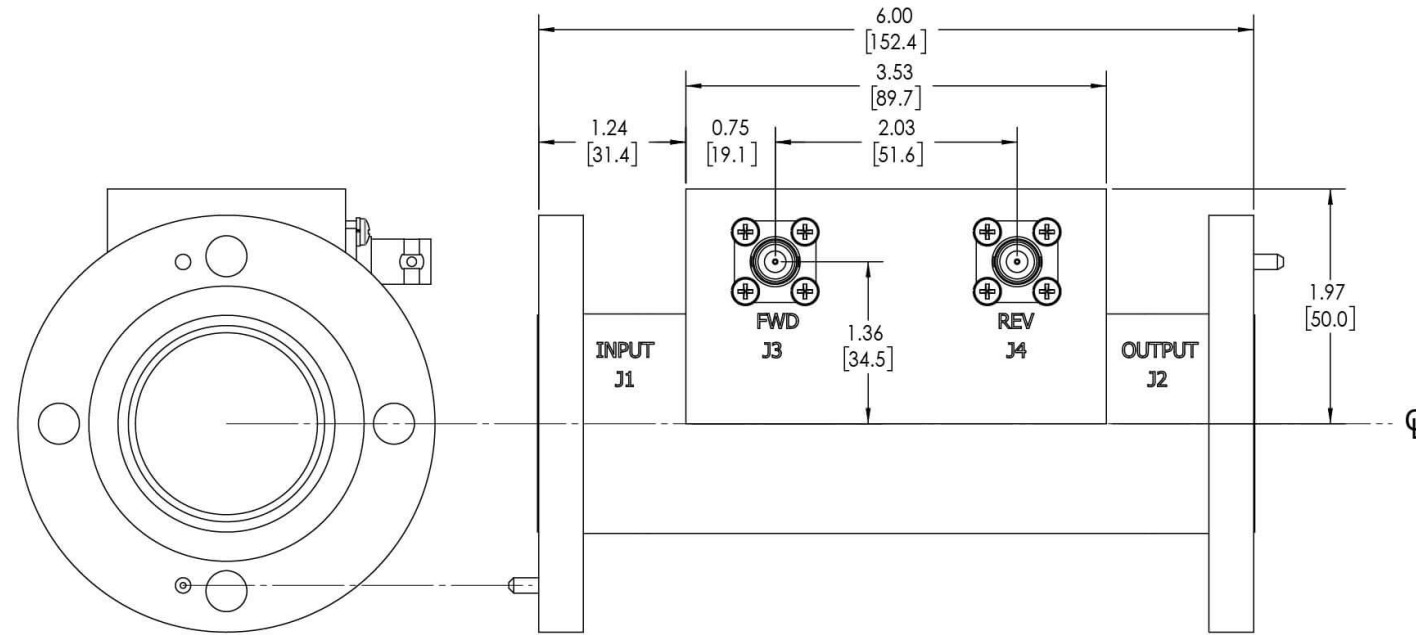


Directivity:



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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		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	2/11/2019	DATE	
DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY	CS	2/11/2019	DATE	
DIMENSIONS ARE IN INCHES	ENGR	DATE	DATE	OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DK	8/4/1992	DATE	
TOLERANCES:	INFR	DATE	DATE	SIZE
ANGLES ± 2°	QA	DATE	DATE	CAGE CODE
3 PL ± .005 [1.3]	RLSE	DATE	DATE	DWG NO
2 PL ± .015 [3.8]				REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				B
CONCENTRICITY MACHINED DIA: .002 FIM				10093-500
MACHINE TOOL MISMATCH .003 MAX.				A
NEXT ASSY	USED ON			SCALE
APPLICATION	THIRD ANGLE PROJECTION			1:1
				DWG NO
				10093-500
				REV
				A
				SHEET 1 OF 1

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