

PRODUCT DATA SHEET

C3042

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: 0.01 - 1000 MHz
 Power: 30 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 1.2 dB Max.
 Flatness: ± 0.5 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)
 RoHS Compliant Available
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Humidity: 95% Non-Condensing
 Size: 5.2 x 2.67 x 1.69"

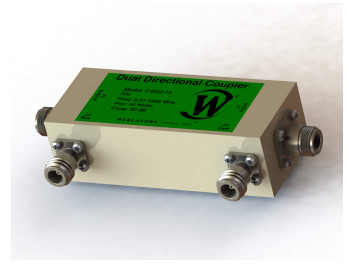
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C3042-10	N Female	N Female	N Female	N Female
C3042-12	N Female	N Female	SMA	SMA
C3042-13	N Female	N Female	BNC	BNC
C3042-102	SMA	SMA	SMA	SMA
C3042-200	BNC	BNC	BNC	BNC
C3042-712	N Male	N Female	SMA	SMA
C3042-714	N Male	N Female	N Female	N Female

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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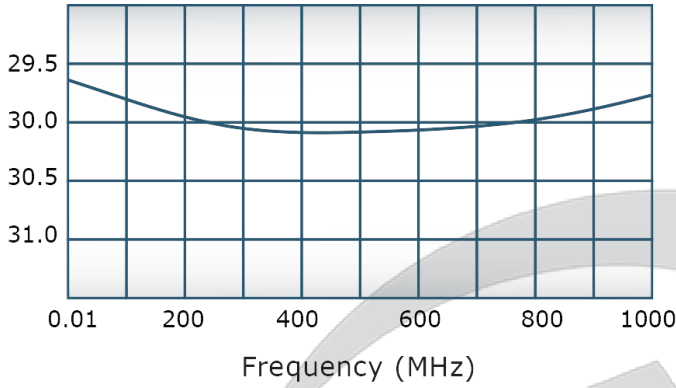


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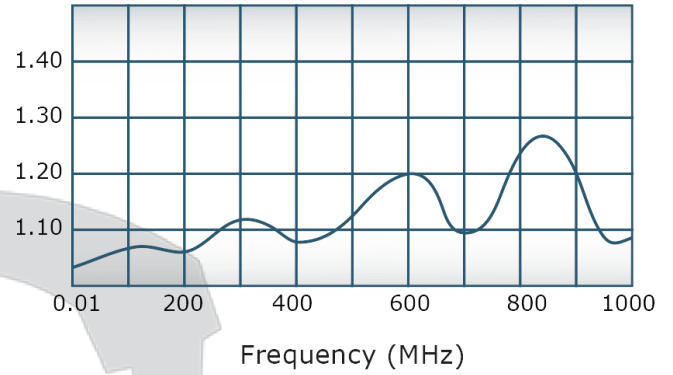
C3042

Performance Data (Specifications subject to change without notice):

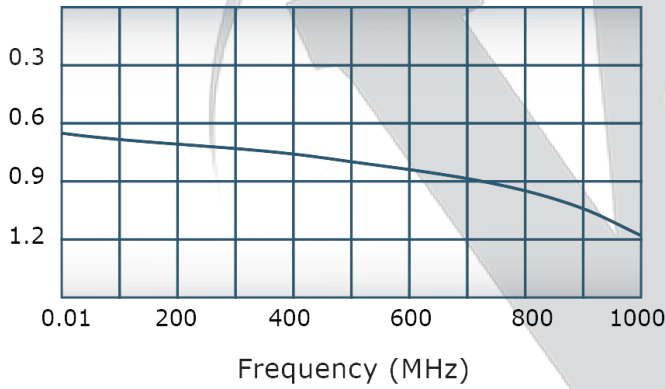
Coupling:



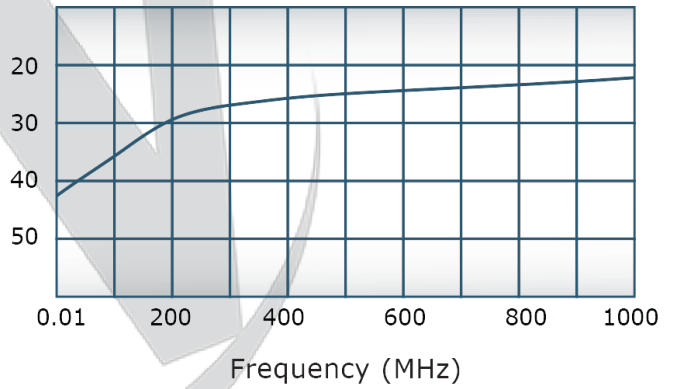
VSWR:



Insertion Loss:



Directivity:



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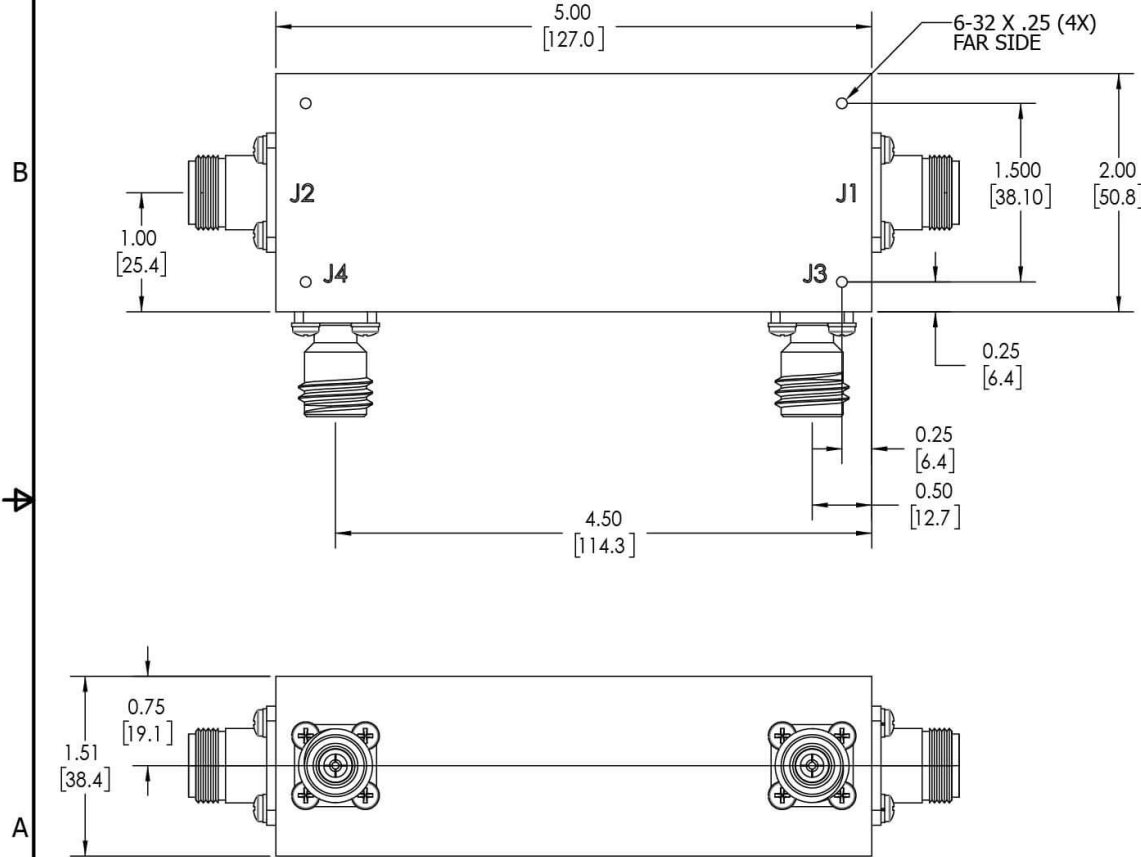
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
C	ECN 3567	10/5/2004	JE
D	ECN 4139	1/15/2007	JE
E	ECN 9696	5/15/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1-J4: N FEMALE
J1-INPUT; J2-OUTPUT
J3-FWD; J4-REV



UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	5/14/2019		W WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE		
PARENTHESES FOR REF ONLY	CS	5/14/2019	TITLE	OUTLINE
DIMENSIONS ARE IN INCHES	ENGR	DATE	SIZE	
DIMENSIONAL LINES APPLY BEFORE PROCESSES	INFR	DATE	CAGE CODE	20676-500
TOLERANCES:	QA	DATE	DWG NO	REV
ANGLES = 2°	RLSE	DATE	B	E
3 PL ± .005 [13]			SCALE	1:1
2 PL ± .015 [38]				SHEET 1 OF 1
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
CONCENTRICITY MACHINED DIA: .002 FIM				
MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON	APPLICATION	THIRD ANGLE PROJECTION	

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