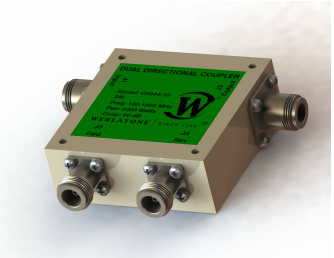
WERLATONE

Model C5044
Connectorized Directional Couplers



PRODUCT DATA SHEET **C5044**

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:	100 - 1000 MHz
Power:	2000 W CW
Coupling:	60 ± 1.0 dB Max.
Insertion Loss:	0.15 dB Max.
Flatness:	± 0.6 dB Max.
VSWR (ML):	1.20:1 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:	3.0 X 3.0 X 1.09''

Connector Configurations:

Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C5044-10	N Female	N Female	N Female	N Female
C5044-12	N Female	N Female	SMA	SMA
C5044-13	N Female	N Female	BNC	BNC
C5044-20*	7/16 Female	7/16 Female	N Female	N Female
C5044-22*	7/16 Female	7/16 Female	SMA	SMA
C5044-23*	7/16 Female	7/16 Female	BNC	BNC
C5044-102	SMA	SMA	SMA	SMA
C5044-627*	7/16 Female	7/16 Male	N Female	N Female
C5044-712	N Male	N Female	SMA	SMA
C5044-714	N Male	N Female	N Female	N Female
C5044-727*	7/16 Male	7/16 Female	N Female	N Female
C5044-728*	7/16 Male	7/16 Female	SMA	SMA

Starred options are 3.0 x 3.0 x 1.59''

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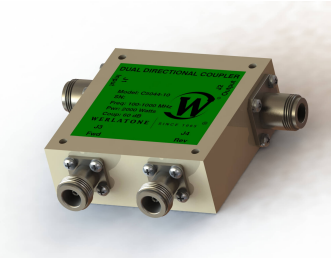
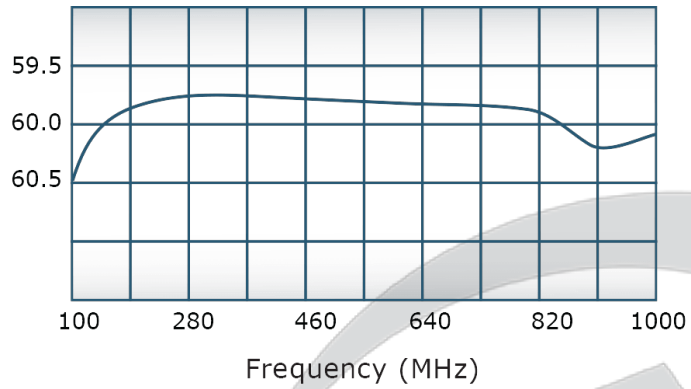
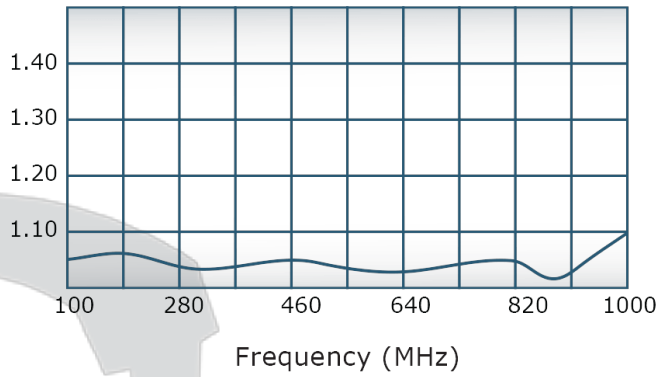


Performance Data (Specifications subject to change without notice):

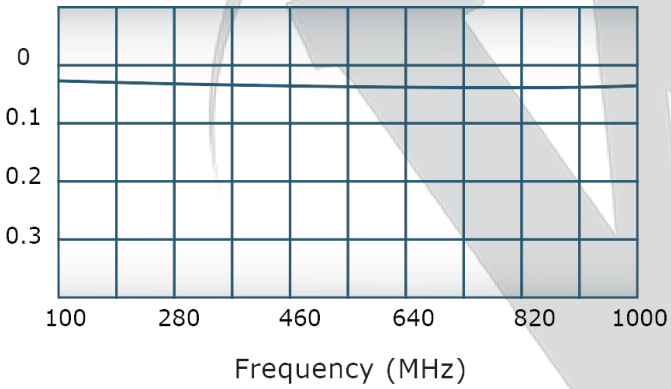
Coupling:



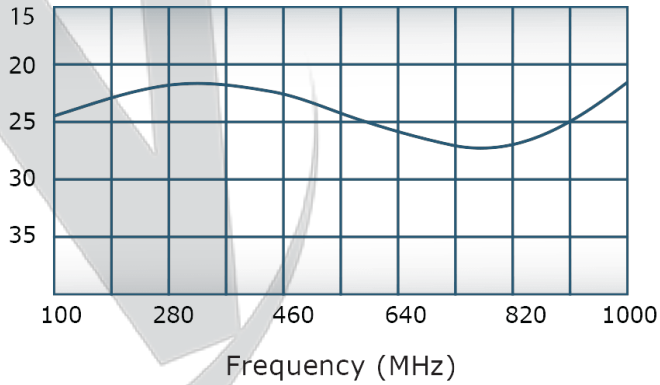
VSWR:



Insertion Loss:



Directivity:



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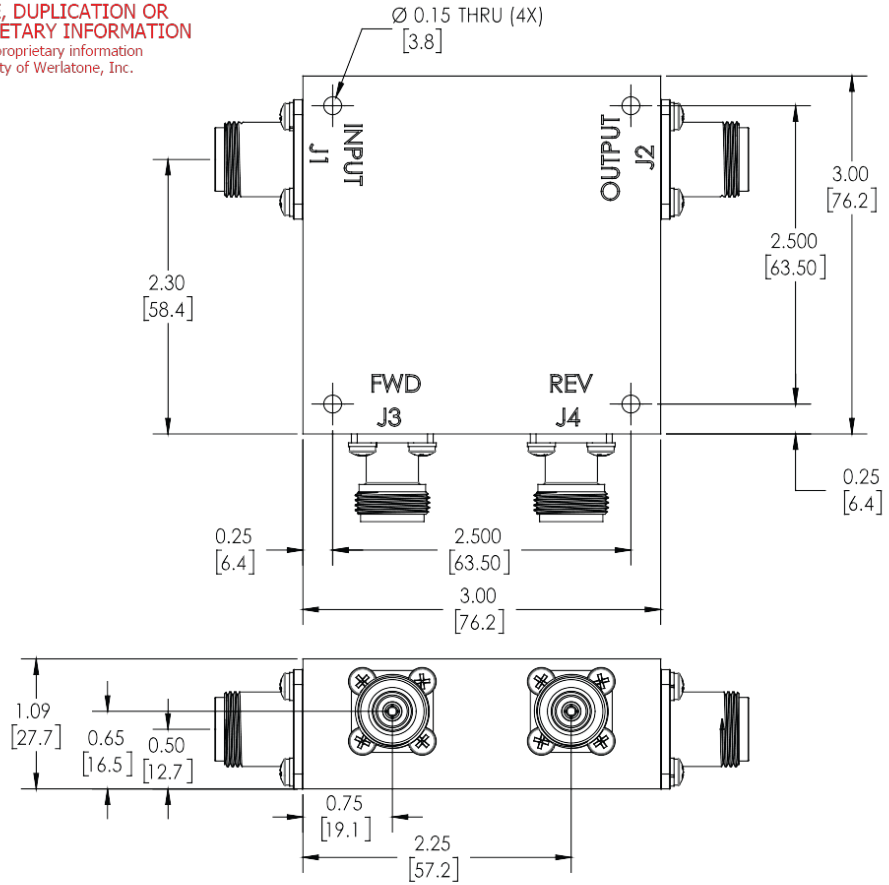

REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED
1. **MATERIAL: ALUMINUM 6061-T6**
2. **FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED	DWN	DATE	WERLATONE SINCE 1965 — 17 Jon Barrett Rd Patterson, NY 12563
		• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL ± .005 [.13] 2 PL ± .015 [.38] • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED EDA: .002 FIM • MACHINE TOOL MISMATCH .003 MAX	RH	7/5/2001	TITLE: OUTLINE
			CHK	DATE	
			ENGR	DATE	
			MJ	7/5/2001	
			MFGR	DATE	
			QA	DATE	SIZE: B — CAGE CODE — DWG NO: 10379-505 — REV: A
NEXT ASSY	USED ON		RLSE	DATE	
APPLICATION		THIRD ANGLE PROJECTION			SCALE: 1:1 — SHEET 1 OF 1

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