



## PRODUCT DATA SHEET

C10234

**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:	30 - 520 MHz
Power:	3000 W CW
Coupling:	56 ± 1.0 dB Max.
Insertion Loss:	0.2 dB Max.
Flatness:	± 0.3 dB Max.
VSWR (ML):	1.15:1 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:	6.0 x 3.0 x 1.6"

### Connector Configurations:

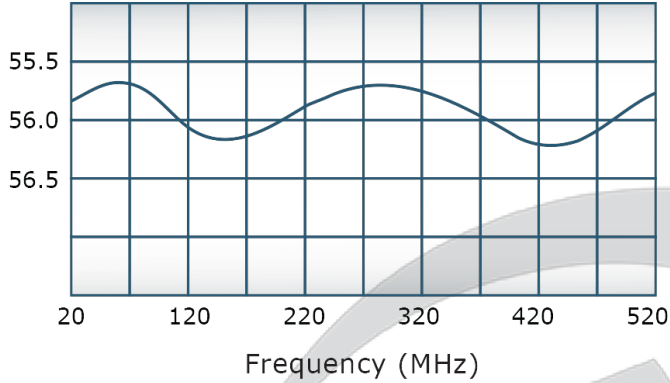
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10234-20	7/16 Female	7/16 Female	N Female	N Female
C10234-22	7/16 Female	7/16 Female	SMA	SMA
C10234-23	7/16 Female	7/16 Female	BNC	BNC
C10234-728	7/16 Male	7/16 Female	SMA	SMA

**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.

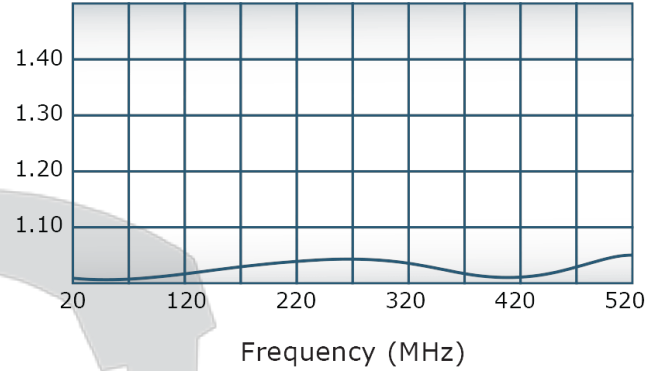


## Performance Data (Specifications subject to change without notice):

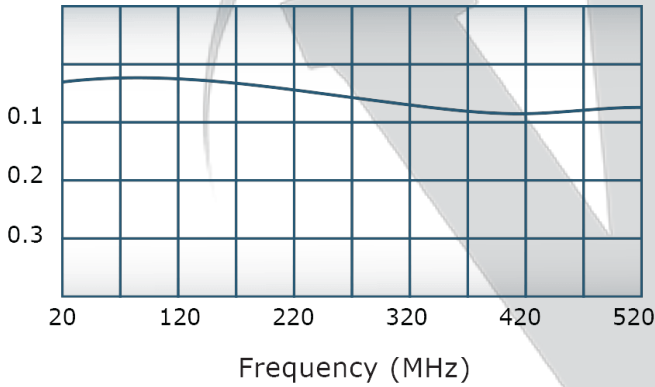
Coupling:



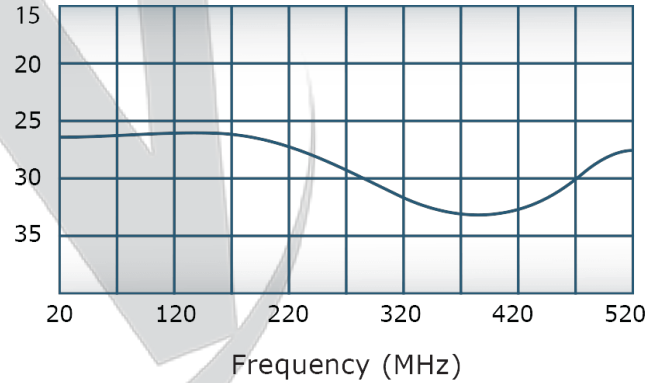
VSWR:



Insertion Loss:



Directivity:



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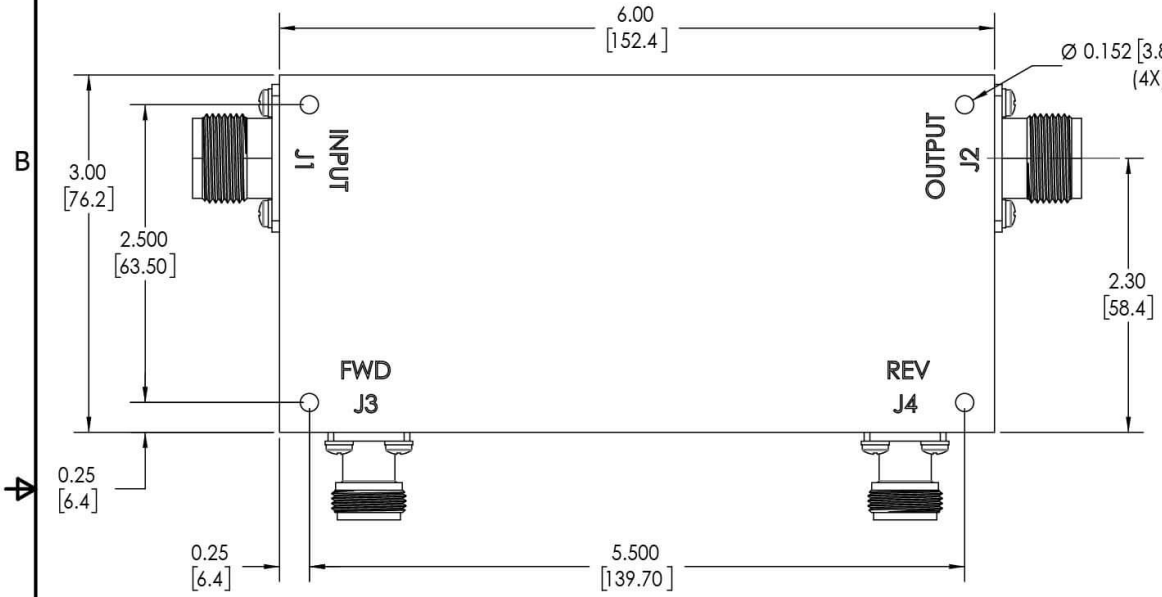
Werlatone, Inc.

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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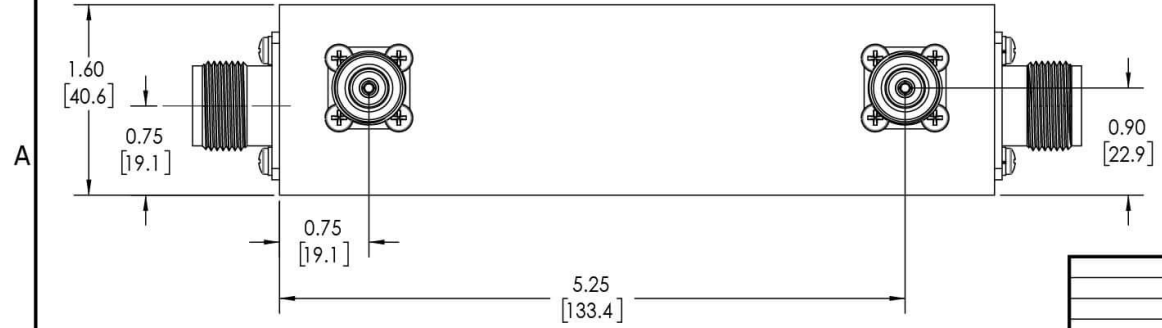
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	8/21/2019	RB



**NOTES: UNLESS OTHERWISE SPECIFIED**

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDIUM)
3. CONNECTORS:  
 J1-J2: HN FEMALE  
 J3-J4: N FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	8/21/2019	WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	
PARENTHEetical INFO FOR REF ONLY		CS	8/21/2019	TITLE
DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	SIZE
TOLERANCES:		QA	DATE	CAGE CODE
ANGLES = 2°		RLSE	DATE	DWG NO
3 PL ± .005 [13]		B 20145-500		
2 PL ± .015 [38]		SCALE		
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		1:1		
CONCENTRICITY MACHINED DIA: .002 FIM		REV		
MACHINE TOOL MISMATCH .003 MAX		A		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SHEET 1 OF 1
APPLICATION				

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