

## PRODUCT DATA SHEET

C7020

**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:	127 - 129 MHz
Power:	2000 W CW
Coupling:	60 ± 1.0 dB Max.
Insertion Loss:	0.15 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.15:1 Max.
Directivity:	25 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 1.59"

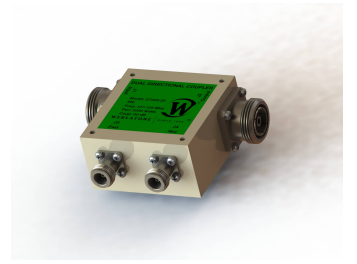
### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7020-20	7/16 Female	7/16 Female	N Female	N Female
C7020-22	7/16 Female	7/16 Female	SMA	SMA
C7020-23	7/16 Female	7/16 Female	BNC	BNC
C7020-729	7/16 Male	7/16 Female	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.

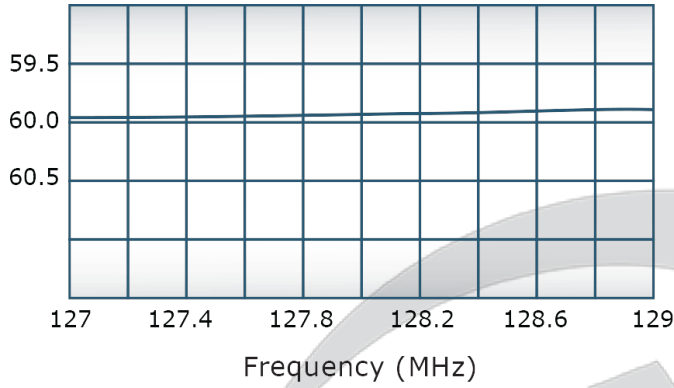
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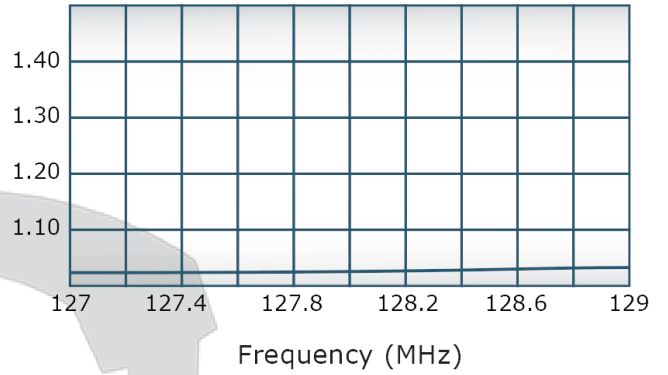


## Performance Data (Specifications subject to change without notice):

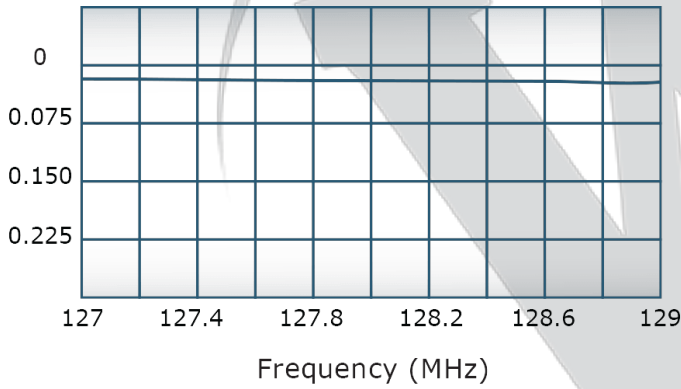
Coupling:



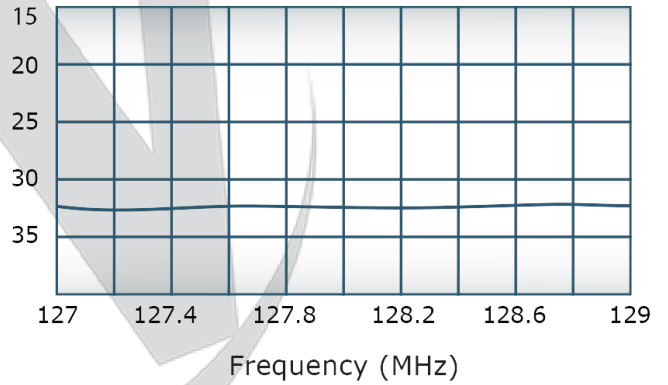
VSWR:



Insertion Loss:



Directivity:



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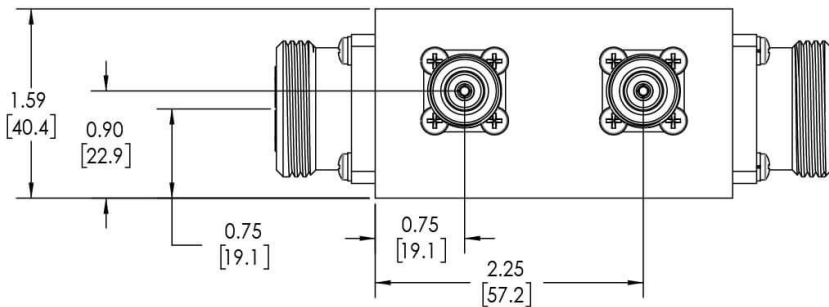
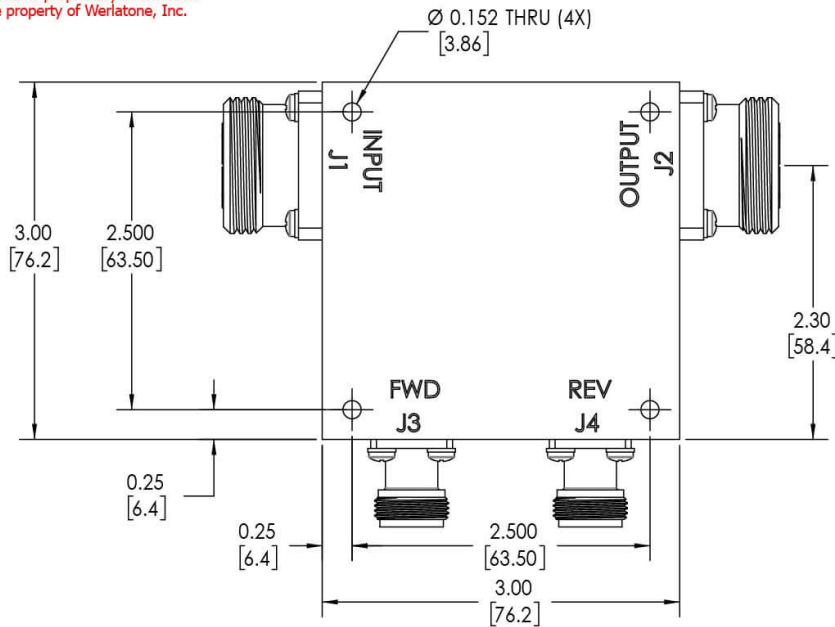
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
- CONNECTORS:  
 J1, J2: 7/16 FEMALE  
 J3, J4: N FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IAW MIL-STD-100	SD	5/13/2019	WERLATONE SINCE 1965	TITLE <b>OUTLINE</b>	
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE			
PARENTHEetical INFO FOR REF ONLY	CS	5/13/2019	ENGR	DATE	REV
DIMENSIONS ARE IN INCHES	ENGR	DATE	INFR	DATE	SCALE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	QA	DATE	RLSE	DATE	SIZE
TOLERANCES:	APPLICATION		THIRD ANGLE PROJECTION		CAGE CODE
ANGLES ± 2°	NEXT ASSY		USED ON		DWG NO
3 PL ± .005 [13]	APPLICATION		USED ON		10443-501
2 PL ± .015 [38]	APPLICATION		USED ON		1:1
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	APPLICATION		USED ON		SHEET 1 OF 1
CONCENTRICITY MACHINED DIA: .002 FIM	APPLICATION		USED ON		
MACHINE TOOL MISMATCH .003 MAX	APPLICATION		USED ON		

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