
**PRODUCT DATA SHEET**
**C7152**

**4-Port Bi-Directional Coupler:** Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

**Features:**

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

**Electrical Specifications:**

Frequency:            300 - 3000 MHz  
 Power:                100 W CW  
 Coupling:             20 ± 1.0 dB Max.  
 Insertion Loss:       0.35 dB Max.  
 Flatness:              ± 1.2 dB Max.  
 VSWR (ML):          1.20:1 Max.  
 Directivity:            15 dB Min.

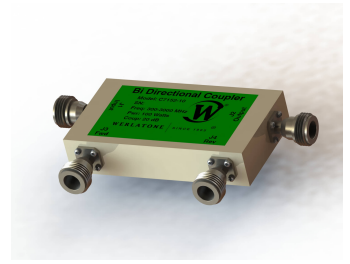
**Mechanical Specifications:**

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:                    3.7 x 2.0 x 0.75"  
 Weight:                 8 ounces

**Port Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7152-10	N Female	N Female	N Female	N Female
C7152-12	N Female	N Female	SMA	SMA
C7152-102	SMA	SMA	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.

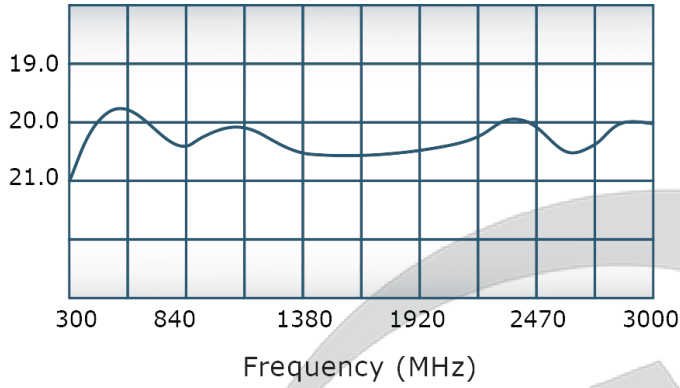


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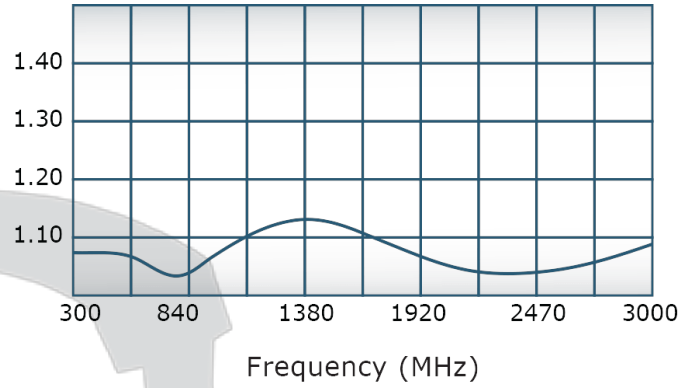
C7152

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

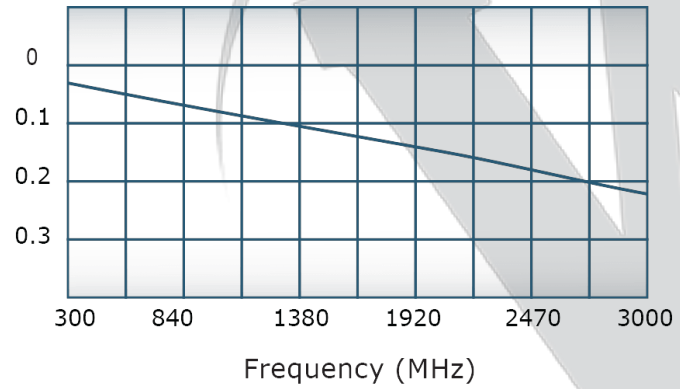
Coupling:



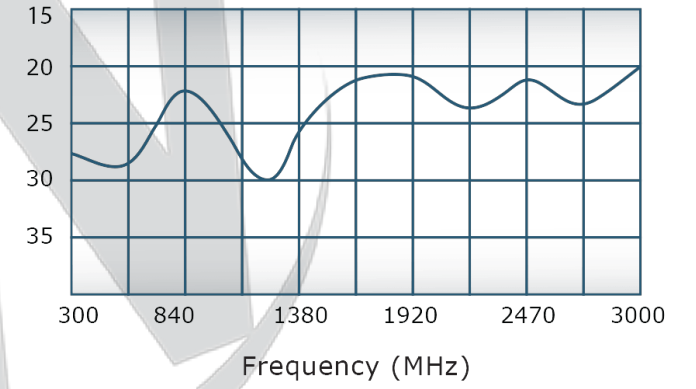
VSWR:



Insertion Loss:



Directivity:



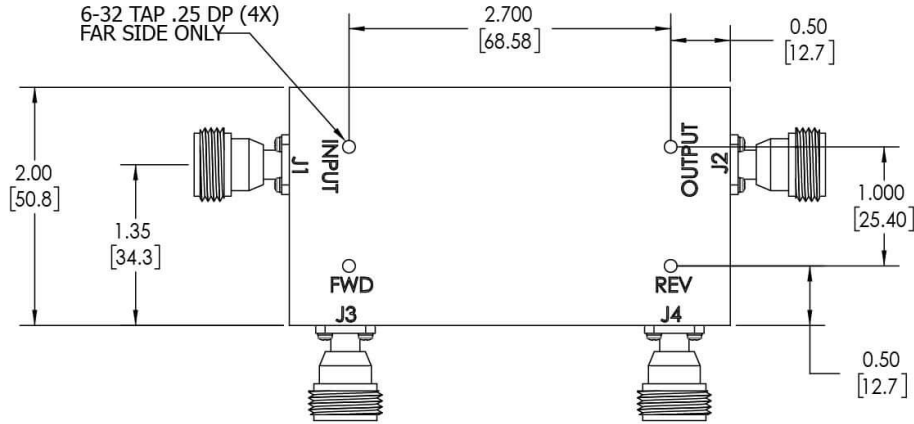
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Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

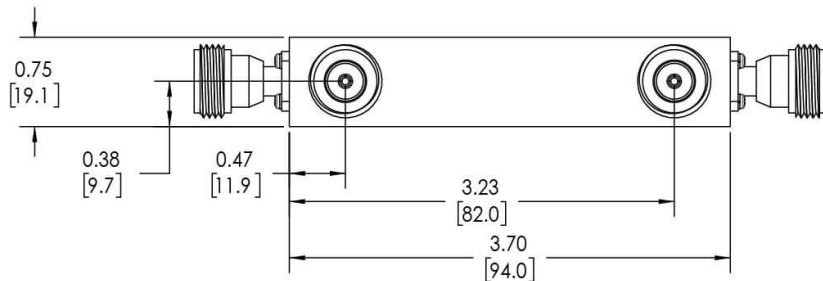
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



**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**



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	6/12/2019	CHK		
DIMENSIONS PER ASME Y14.5M-2009	CS	6/12/2019	ENGR	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY					<b>OUTLINE</b>
DIMENSIONS ARE IN INCHES					SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES					CAGE CODE
TOLERANCES:					DWG NO
ANGLES ± 2°					REV
3 PL ± .005 [13]					B
2 PL ± .015 [38]					10945-500
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					SCALE
CONCENTRICITY MACHINED DIA: .002 FIM					1:1
MACHINE TOOL MISMATCH .003 MAX					SHEET 1 OF 1

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