



## 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:  $20 \pm 1.0$  dB Max.  
 Insertion Loss: 0.35 dB Max.  
 Flatness:  $\pm 1.2$  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.



# WERLATONE

Model C7152

Connectorized Directional Couplers

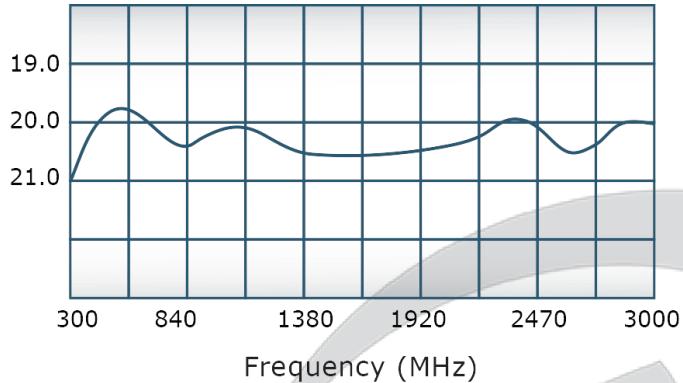


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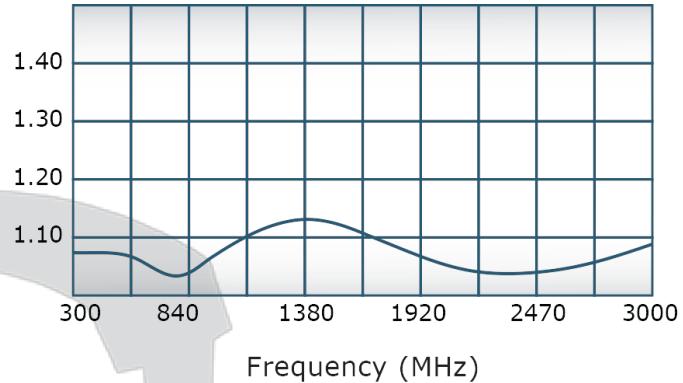
C7152

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

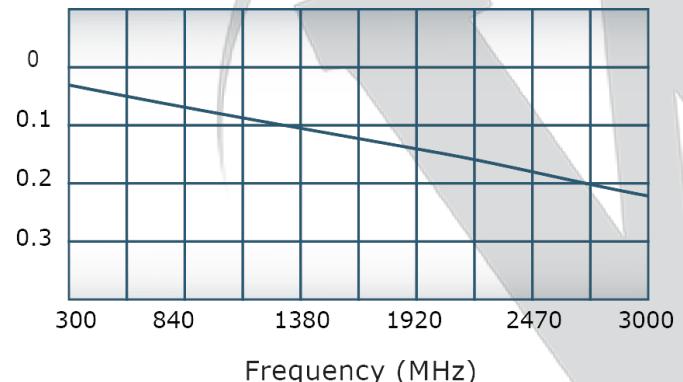
Coupling:



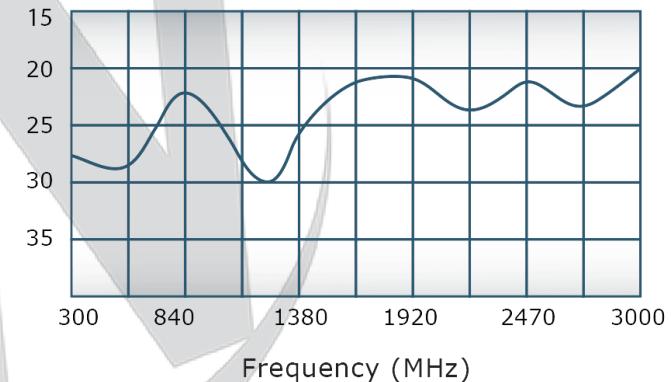
VSWR:



Insertion Loss:



Directivity:



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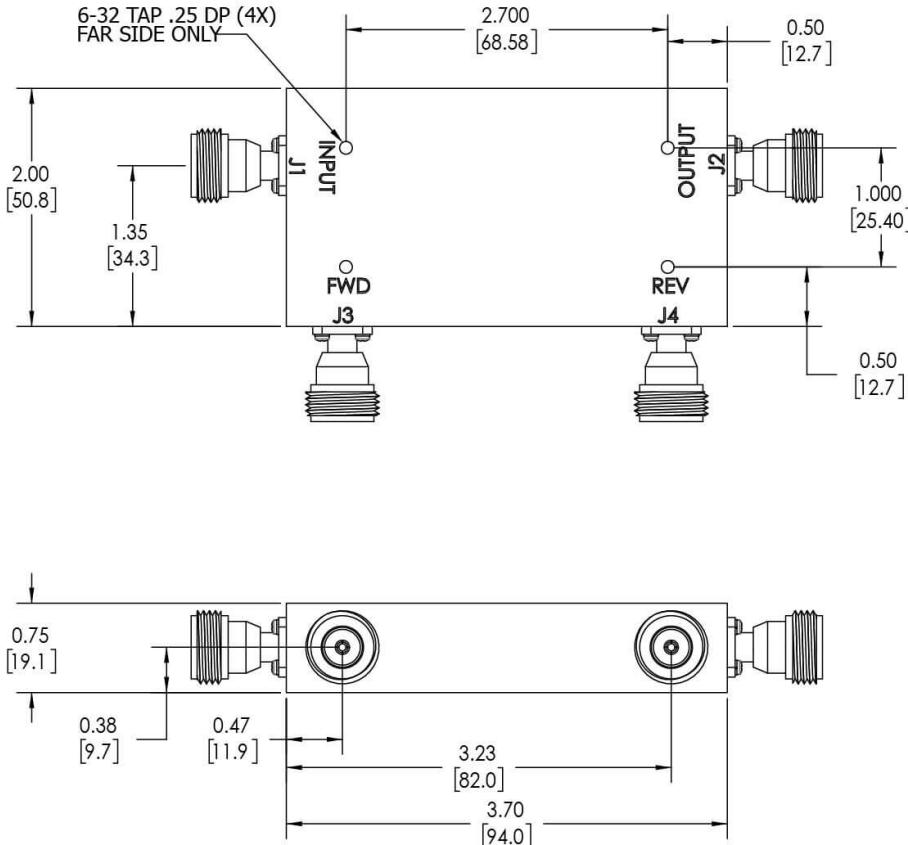
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



**NOTES: UNLESS OTHERWISE SPECIFIED**

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

		UNLESS OTHERWISE SPECIFIED	DWN	DATE	 <b>WERLATONE</b> SINCE 1965  <b>OUTLINE</b> SIZE : CAGE CODE : DWS (NO) : <b>B</b> <b>10945-500</b> <b>A</b>	17 Jon Barrett Rd
		INTERPRET DRAWING IAW MIL-STD-100	SD	6/12/2019		
		DEFINITION OF TERMS IAW MIL-STD-2009	CHK	DATE		
		PARENTHETICAL INFO FOR REF ONLY	CS	6/12/2019		
		DIMENSIONS ARE IN INCHES	ENGR	DATE		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES				
		TOLERANCE				
		ANGLES $\pm 2^\circ$	MFGR	DATE		
		3 PL. $\pm .005$ [-13]	QA	DATE		
		2 PL. $\pm .003$	RLSE	DATE		
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
		CONCENTRICITY MACHINED DIA: .002 FIM				
		MACHINE TOOL HSMACH MAX .003 MAX				
<b>NEXT ASSY</b>	<b>USED ON</b>					
 <b>FUSILLI</b> 						

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