

## PRODUCT DATA SHEET

C6148

**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.

### Electrical Specifications:

Frequency: 800 - 3000 MHz  
Power: 200 W CW  
Coupling:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.75$  dB Max.  
VSWR (ML): 1.30:1 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)
C6148-10	N Female	N Female	N Female	N Female
C6148-12	N Female	N Female	SMA	SMA
C6148-13	N Female	N Female	BNC	BNC
C6148-20*	7/16 Female	7/16 Female	N Female	N Female
C6148-22*	7/16 Female	7/16 Female	SMA	SMA
C6148-23*	7/16 Female	7/16 Female	BNC	BNC
C6148-610	N Female	N Male	N Female	N Female
C5681-627*	7/16 Female	7/16 Male	N Female	N Female
C5681-727*	7/16 Male	7/16 Female	N Female	N Female
C5681-728*	7/16 Male	7/16 Female	SMA	SMA

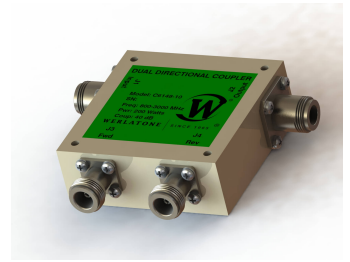
(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



# WERLATONE

Model C6148

Connectorized Directional Couplers

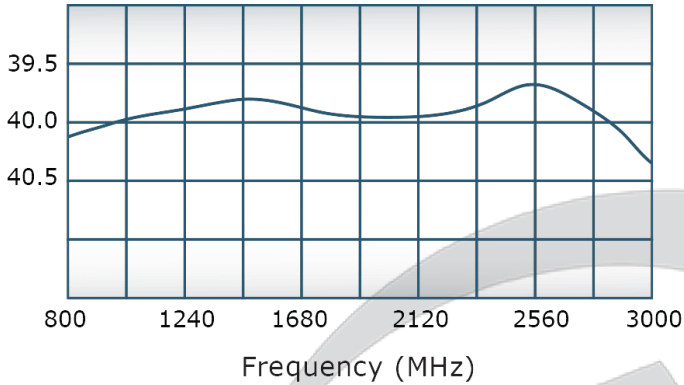


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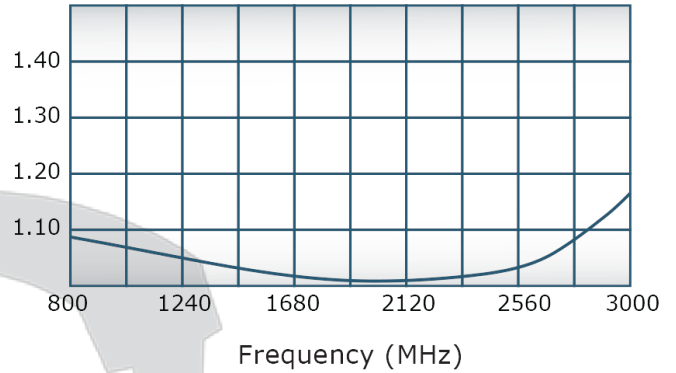
C6148

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

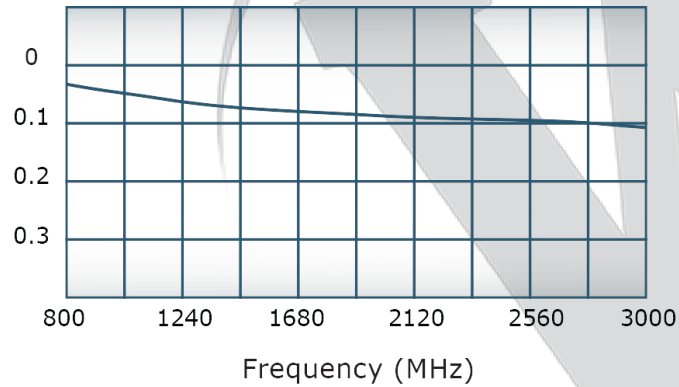
Coupling:



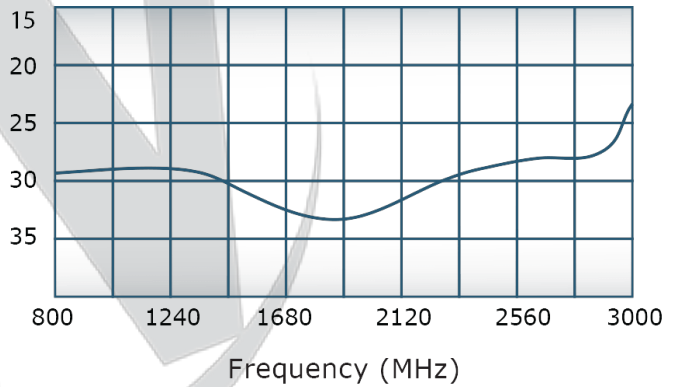
VSWR:



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		OWN	DATE	 WERLATONE® SINCE 1963	17 Jon Barrett Rd Patterson, NY 12568		
		<ul style="list-style-type: none"><li>*INTERPRET DRAWING AS PER MIL-STD-100</li><li>*DIMENSIONING FOR ASME Y14.2M-2009</li><li>*PRACTICAL TOLERANCES FOR FITS ONLY</li><li>*DIMENSIONS ARE IN INCHES</li><li>*DIMENSIONAL UNITS APPLY BEFORE PROCESSES</li><li>*TOLERANCES:<ul style="list-style-type: none"><li>ANGLES = ±</li><li>PL. &amp; COG [13]</li><li>PL. &amp; COG [25]</li></ul></li><li>*REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</li><li>*CONTRACT/CTY MACHINE/ING DIA. .002 FIN</li><li>*MACHINE TOOL, REPEAT/ING .002 MAX</li></ul>		RH	7/5/2001		 WERLATONE® SINCE 1963		
				ENGR	7/5/2001	TITLE			
				RFR		OUTLINE			
				QA				SIZE	CAGE CODE
NEXT ASSY	USED ON			BLSE		B		10379-505	RE
APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1	

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