


**PRODUCT DATA SHEET**
**C6418**

**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: 13 - 175 MHz  
 Power: 10,000 W CW (13-60 MHz), 3,000 W CW (60-150 MHz),  
 2,500 W CW (150-175 MHz)  
 Coupling: 50 ± 1.0 dB Max.  
 Insertion Loss: 0.1 dB Max.  
 Flatness: ± 0.2 dB Max. (13-80 MHz), ±0.5 dB Max. (80-175 MHz)  
 VSWR (ML): 1.20:1 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: 6.0 x 3.0 x 2.24"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6418-20	7/16 Female	7/16 Female	N Female	N Female
C6418-22	7/16 Female	7/16 Female	SMA	SMA
C6418-23	7/16 Female	7/16 Female	BNC	BNC
C6418-30	LC Female	LC Female	N Female	N Female
C6418-33	LC Female	LC Female	BNC	BNC
C6418-501	SQS Female	SQS Female	N Female	N Female
C6418-7502	SQS Male	SQS Female	SMA	SMA
C6418-7503	SQS Male	SQS Female	BNC	BNC
C6418-7508	SQS M-P	SQS Female	BNC	BNC
C6418-QC-0	QC Block	QC Block	N Female	N Female

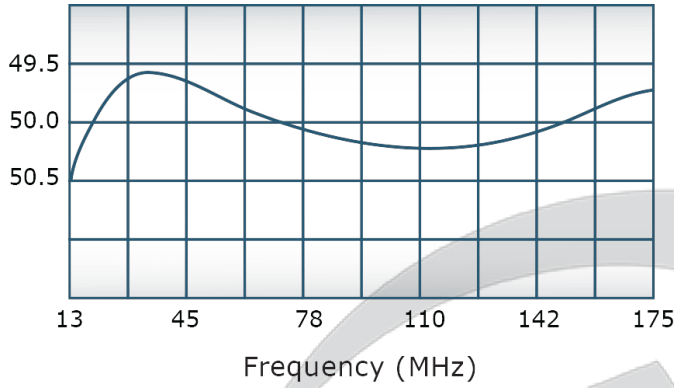


## PRODUCT DATA SHEET

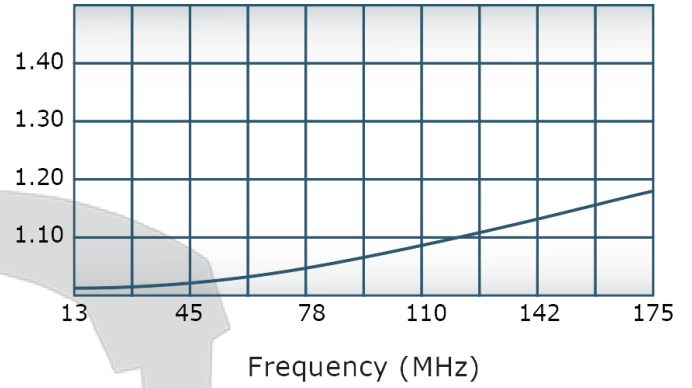
C6418

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

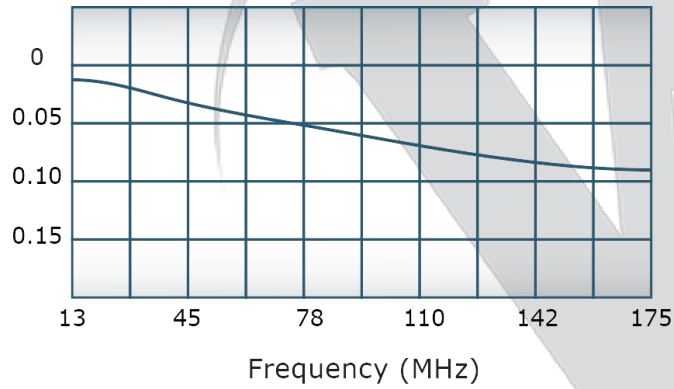
Coupling:



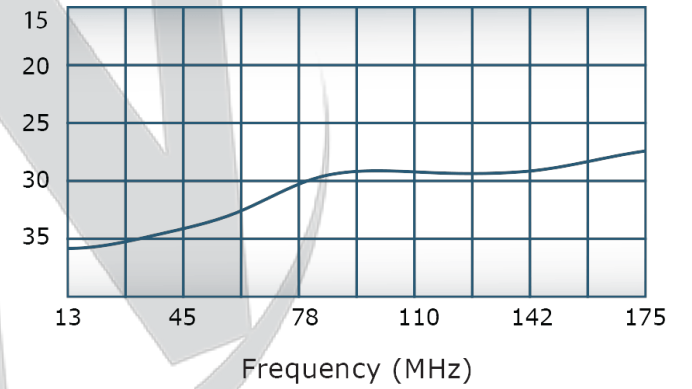
VSWR:



Insertion Loss:



Directivity:

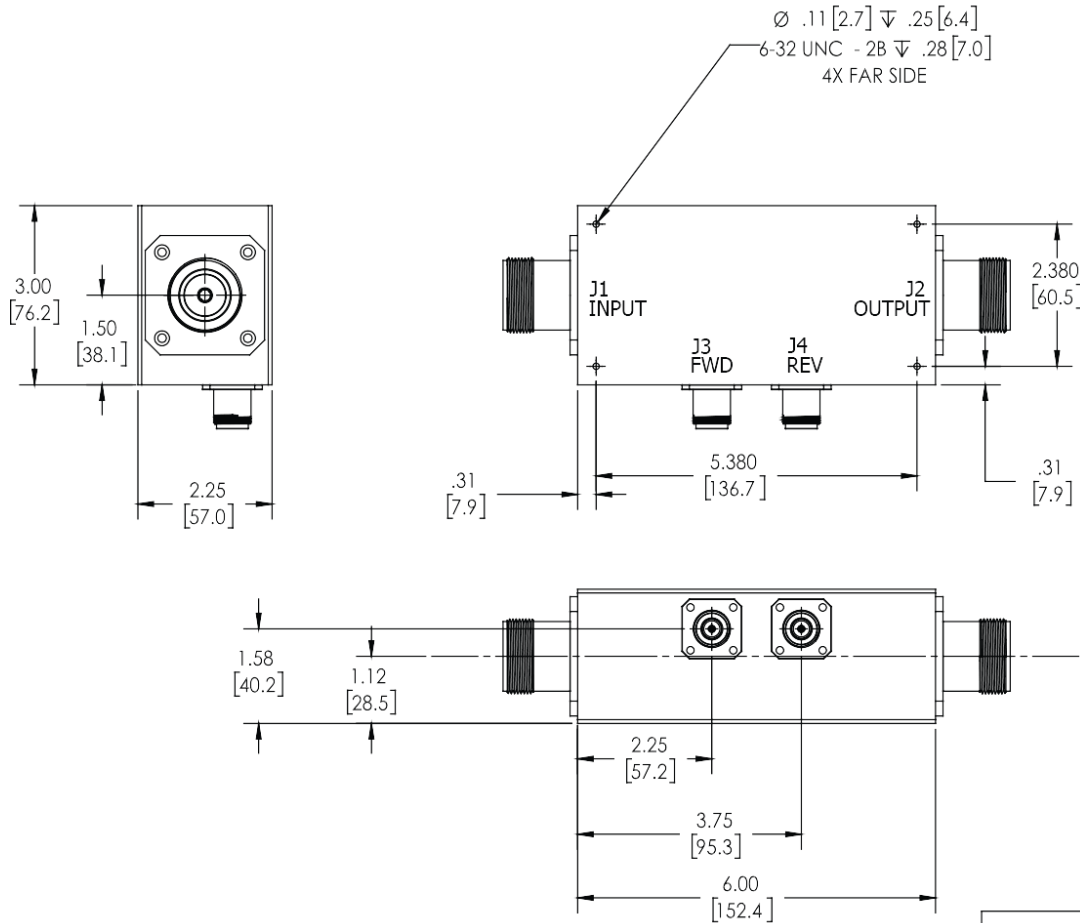


Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
 This document contains proprietary information which is the sole property of Werlatone, Inc.

REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	10/29/2018	CS



UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
<ul style="list-style-type: none"> <li>• INTERPRET DRAWING JAW MIL-STD-100</li> <li>• DIMENSIONING PER ASME Y14.3M-2009</li> <li>• PARENTHESIZED DIMS FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES (mm)</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> <li>• TOLERANCES:               <ul style="list-style-type: none"> <li>ANGLES ± 2°</li> <li>2 PL ± .005 (1.3)</li> <li>2 PL ± .015 (4)</li> </ul> </li> <li>• REMOVE ALL BURRS AND SHARP EDGES R.02 MAX</li> <li>• CONCENTRICITY MACHINED DIA: .002 FIM</li> <li>• MACHINE TOOL REPAIR/1-.003 MAX</li> </ul>		PLP	10/25/2018	
NEXT ASSY		USED ON	DATE	TITLE
APPLICATION		THIRD ANGLE PROJECTION	DATE	SIZE CASE CODE DWG NO <b>B 28812 10396-500</b>
			DATE	REV
			DATE	-
			SCALE	SHEET 1 OF 1
			1:2	

**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of 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