


**PRODUCT DATA SHEET**
**C1449**

**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:      1 - 100 MHz  
 Power:          10,000 W CW  
 Coupling:        70 ± 1.0 dB Max.  
 Insertion Loss: 0.05 dB Max.  
 Flatness:        ± 0.75 dB Max.  
 VSWR (ML):    1.10:1 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:              6.0 x 3.0 x 2.24"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1449-20	7/16 Female	7/16 Female	N Female	N Female
C1449-22	7/16 Female	7/16 Female	SMA	SMA
C1449-23	7/16 Female	7/16 Female	BNC	BNC
C1449-30	LC Female	LC Female	N Female	N Female
C1449-33	LC Female	LC Female	BNC	BNC
C1449-63	HN Female	HN Female	SMA	SMA
C1449-64	HN Female	HN Female	BNC	BNC
C1449-503	SQS Female	SQS Female	BNC	BNC
C1449-728	7/16 Male	7/16 Female	SMA	SMA
C1449-754	HN Female	HN Male	SMA	SMA
C1449-QC-2	QC Block	QC Block	SMA	SMA

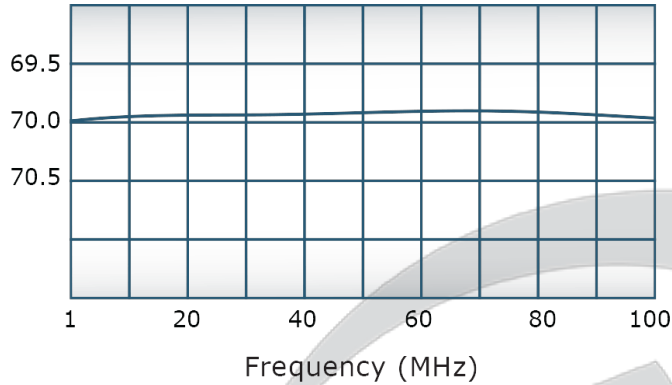


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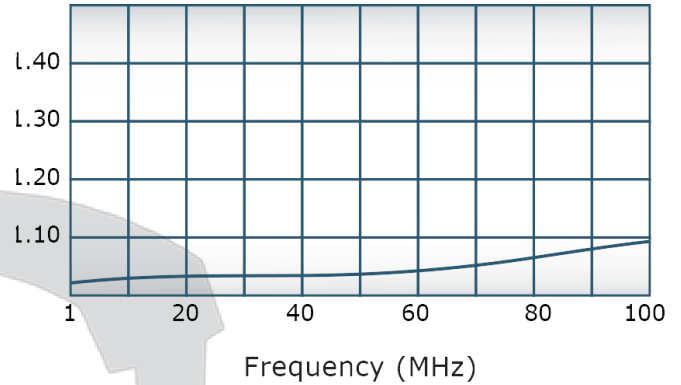
C1449

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

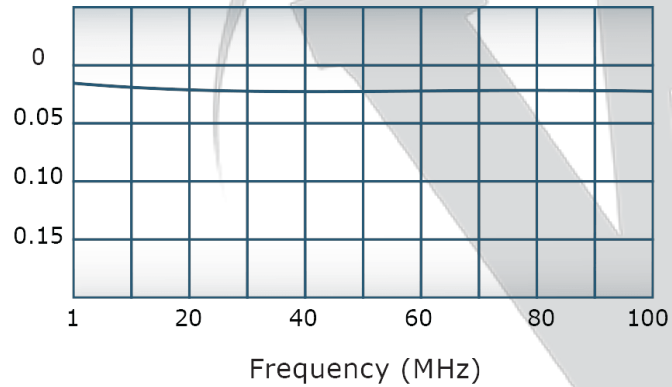
Coupling:



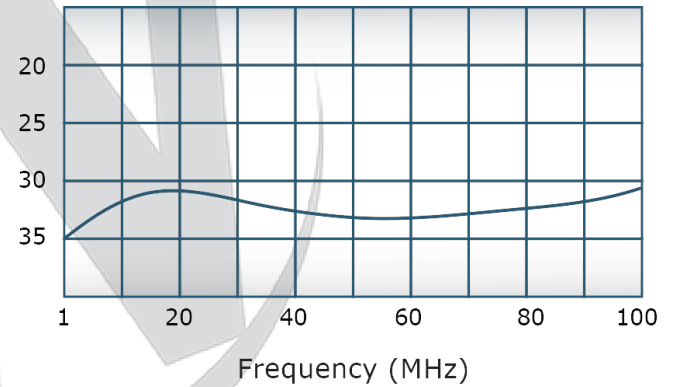
VSWR:



Insertion Loss:



Directivity:



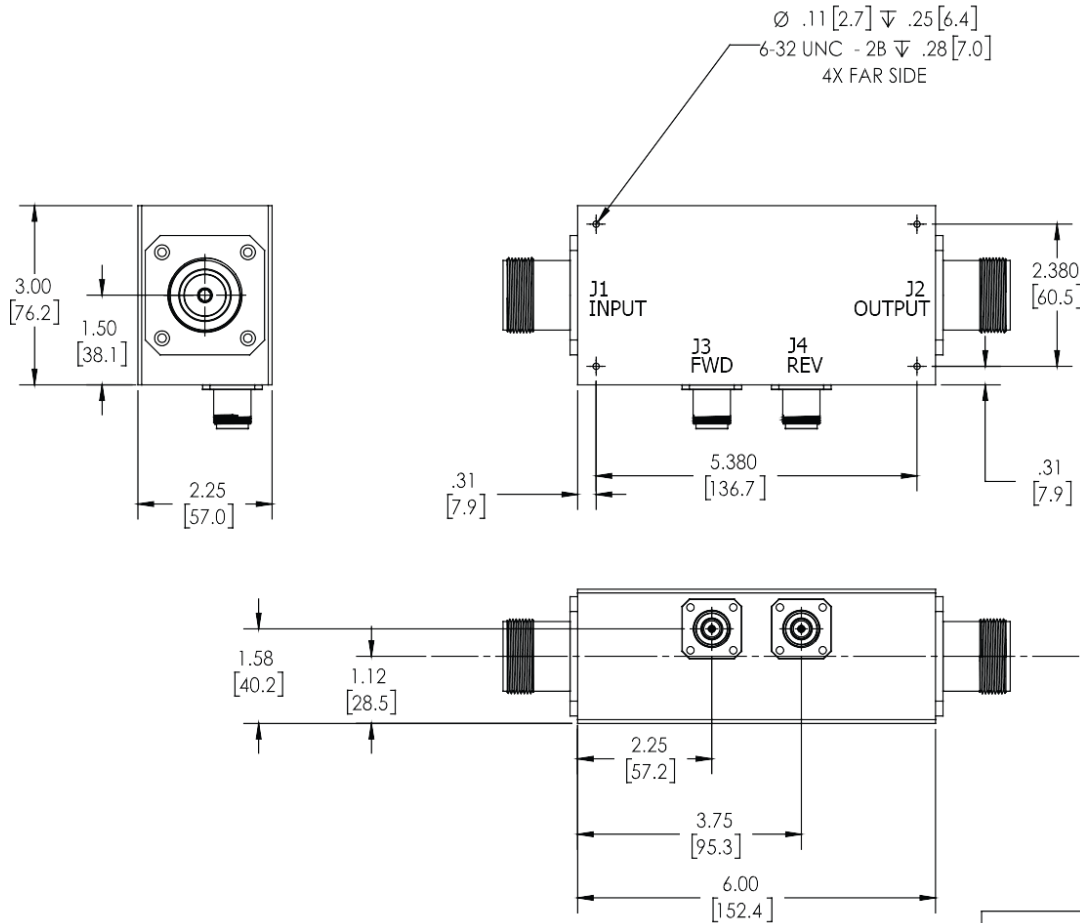
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Werlatone, Inc.

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



UNLESS OTHERWISE SPECIFIED		OWN	DATE	PLP	10/25/2018	<b>WERLATONE SINCE 1965</b> 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>• PRESENTED TOTAL DIMS FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES (mm)</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> <li>• TOLERANCES:</li> </ul>		CHK	DATE	CS	10/29/2018	
		ENGR	DATE			TITLE
		MFR	DATE			SIZE CASE CODE DWG NO
		QA	DATE			B 28812 10396-500
		RLSE	DATE			SCALE 1:2
APPLICATION		THIRD ANGLE PROJECTION				SHEET 1 OF 1

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