



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

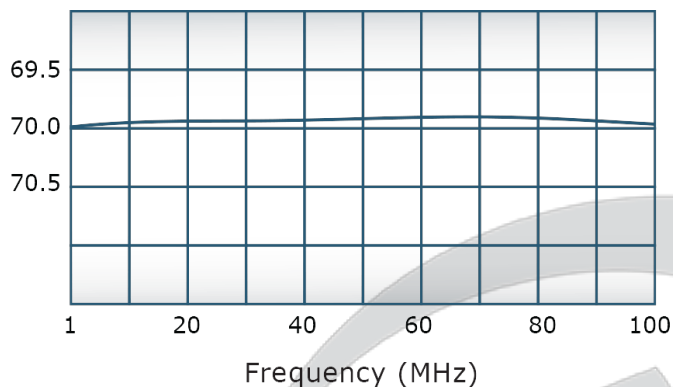


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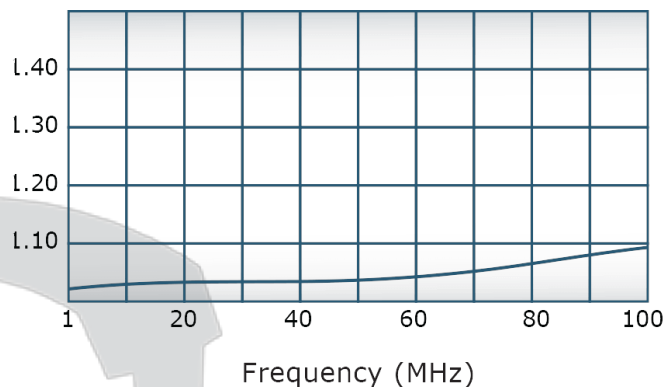
C1449

Performance Data (Specifications subject to change without notice):

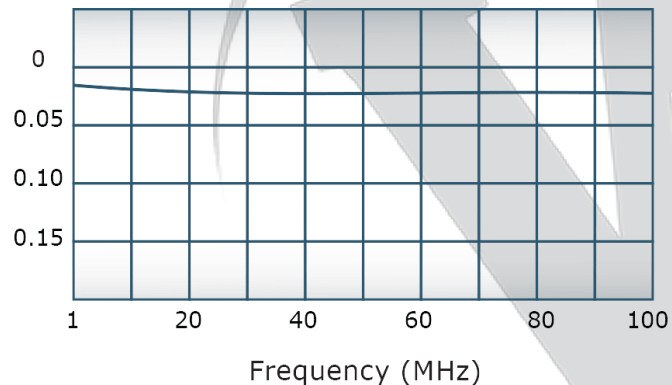
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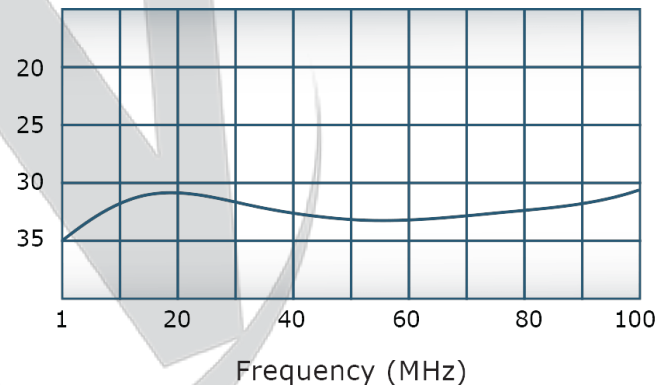
VSWR:



Insertion Loss:

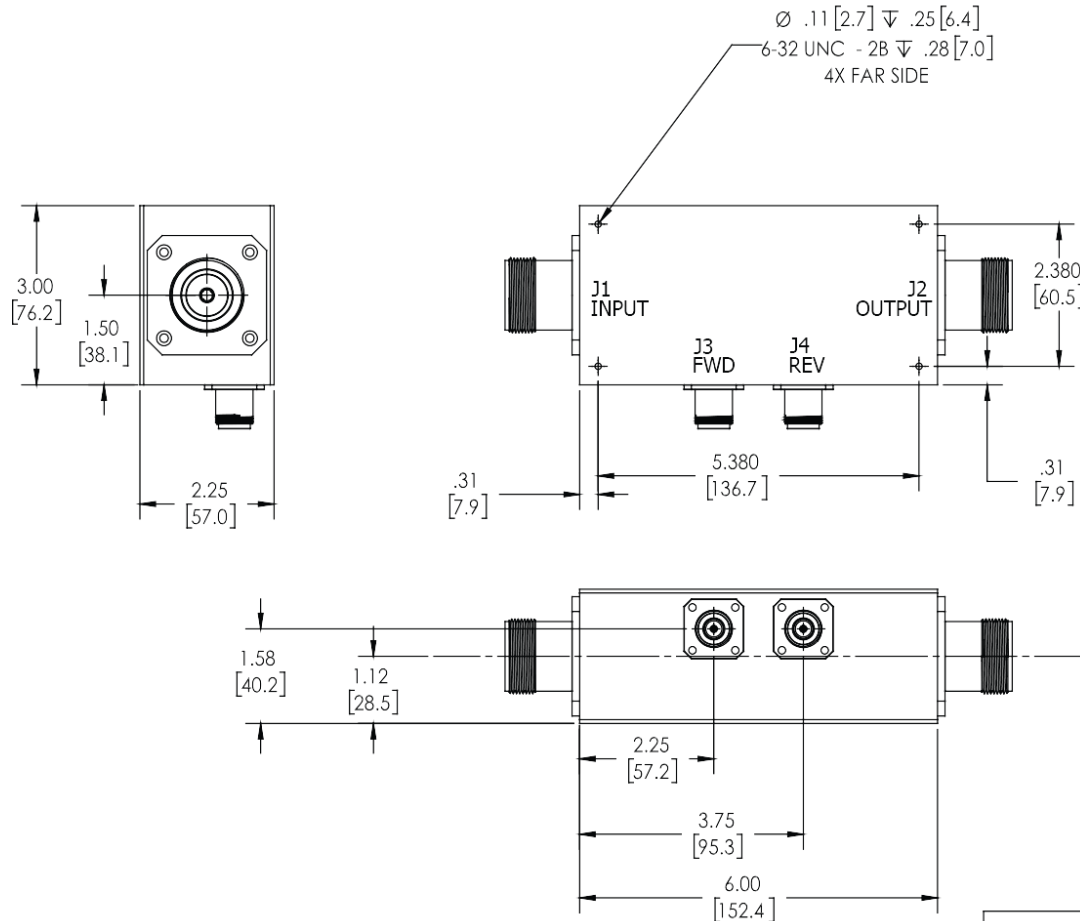


Directivity:



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



UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING JAW MIL-STD-100		PLP	10/25/2018	WERLATONE SINCE 1965	
• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE	
• DIMENSIONAL UNITS: INCHES (mm)		CS	10/29/2018	SIZE	
• DIMENSIONAL UNITS: INCHES (mm)		ENGR	DATE	CAGE CODE	
• DIMENSIONAL UNITS: INCHES (mm)		INFR	DATE	DWG NO	
• DIMENSIONAL UNITS: INCHES (mm)		QA	DATE	REV	
• DIMENSIONAL UNITS: INCHES (mm)		RLSE	DATE	SCALE	
• DIMENSIONAL UNITS: INCHES (mm)		THIRD ANGLE PROJECTION		SHEET 1 OF 1	
• DIMENSIONAL UNITS: INCHES (mm)		APPLICATION		1:2	
• DIMENSIONAL UNITS: INCHES (mm)		NEXT ASSY		10396-500	
• DIMENSIONAL UNITS: INCHES (mm)		USED ON		1	

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