



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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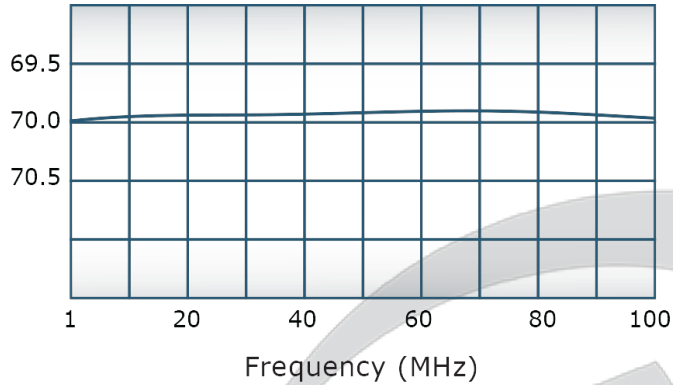


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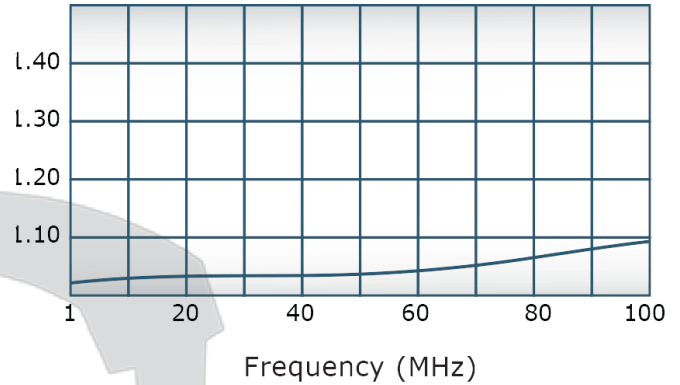
C1449

Performance Data (Specifications subject to change without notice):

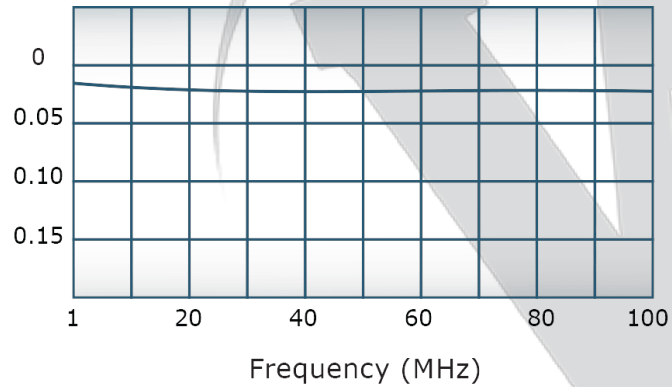
Coupling:



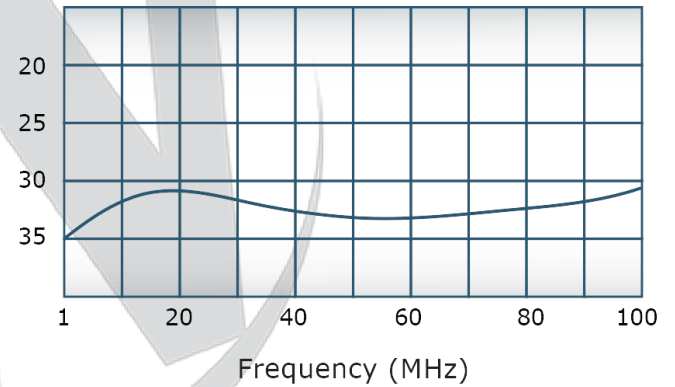
VSWR:



Insertion Loss:



Directivity:

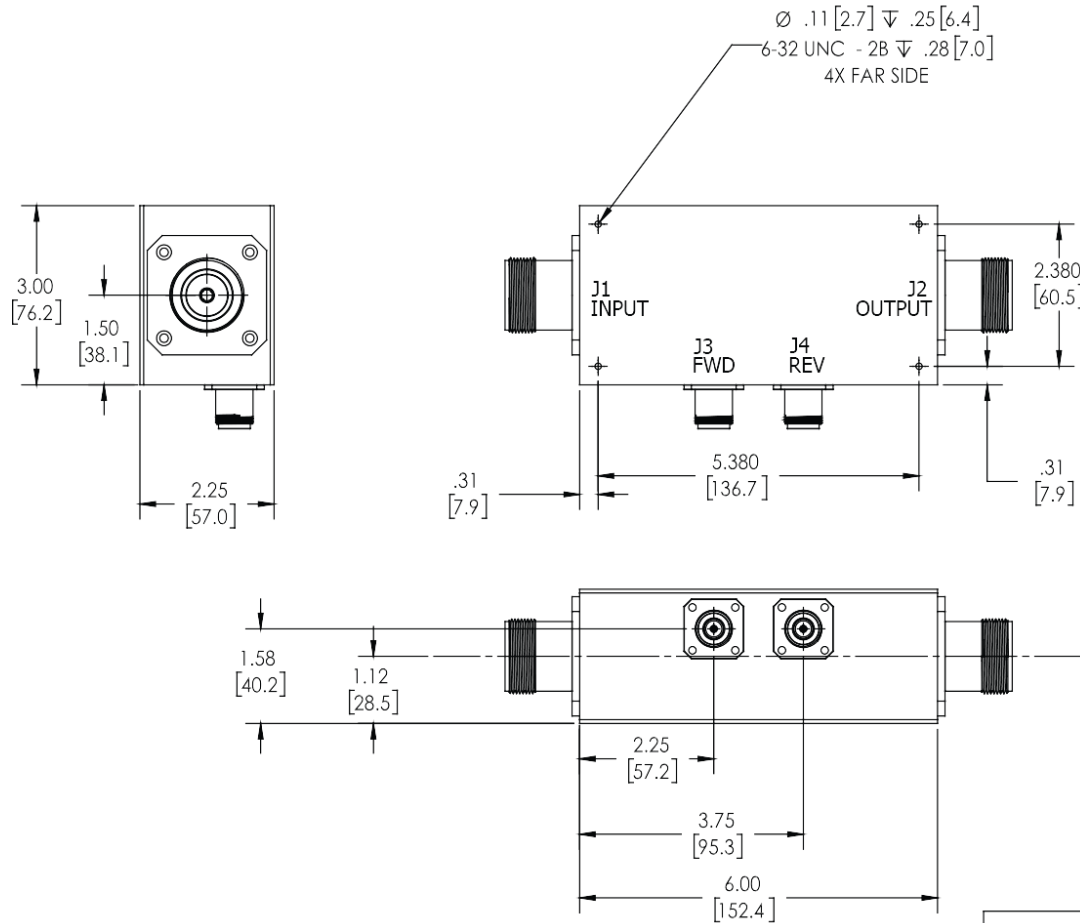


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	10/29/2018	CS



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563			
		• INTERPRET DRAWING JAW MIL-STD-100		PLP	10/25/2018	WERLATON SINCE 1965			
		• DIMENSIONING PER ASME Y14.3M-2009		CHK	DATE				
		• PRELIMINARY DIMS FOR REF ONLY		CS	10/29/2018	TITLE			
		• DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE	SIZE			
		• DIMENSIONAL UNITS APPLY BEFORE PROCESSES		INFR	DATE	CAGE CODE			
		• TOLERANCES:		QA	DATE	DWG NO			
		ANGLES: ± 2°		RLSE	DATE	REV -			
		2 PL ± .005 (1.3)		B 28812 10396-500					
		2 PL ± .015 (4)		SCALE 1:2					
		• REMOVE ALL BURRS AND SHARP EDGES R.03 MAX		SHEET 1 OF 1					
		• CONCENTRICITY MACHINED DIA: .002 FIM							
		• MACHINE TOOL REPAIR: .003 MAX							
NEXT ACTION		USED ON							
APPLICATION		THIRD ANGLE PROJECTION							

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