


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

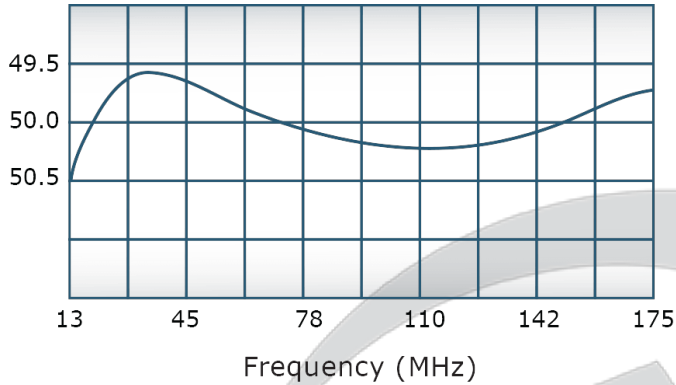


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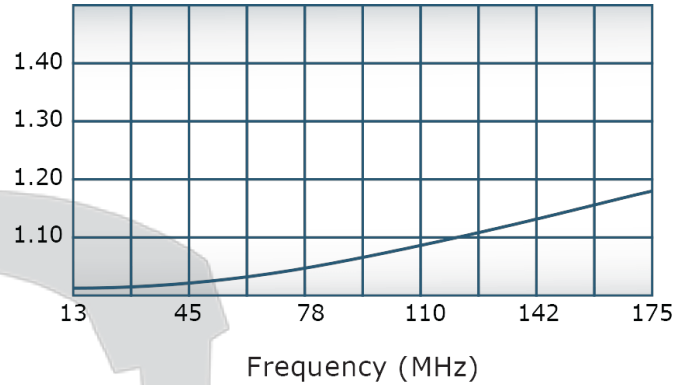
C6418

Performance Data (Specifications subject to change without notice):

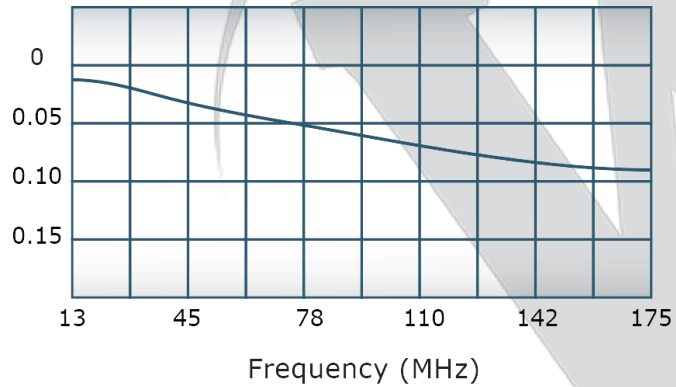
Coupling:



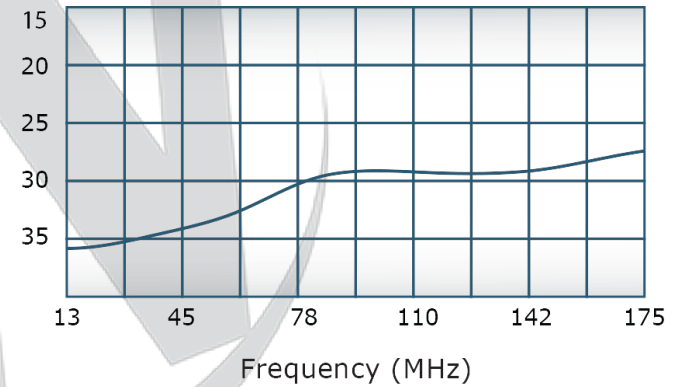
VSWR:



Insertion Loss:



Directivity:

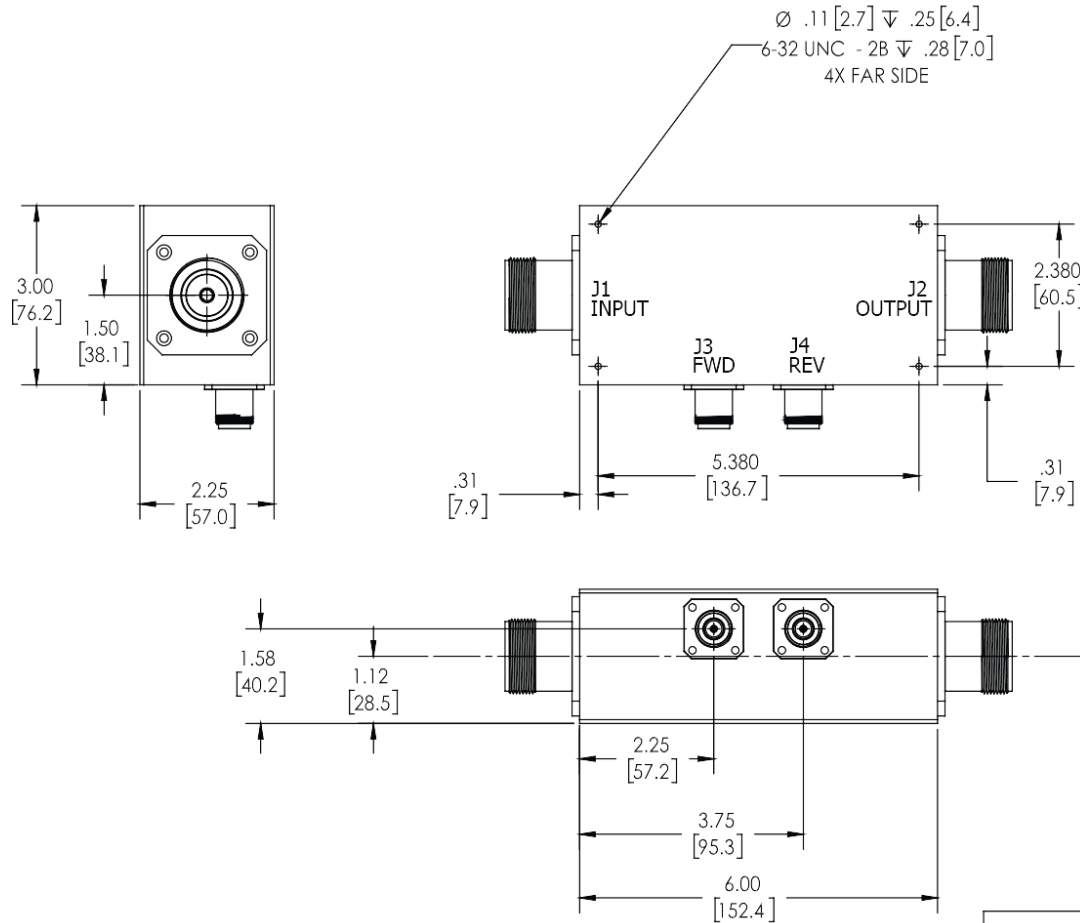



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	10/29/2018	CS



		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 Y14.5M-2009		CHK	DATE		
		• PRELIMINARY DIMS FOR REF ONLY		CS	10/29/2018	TITLE	
		• DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE	SIZE CASE CODE DWG NO	
		• DIMENSIONAL UNITS APPLY BEFORE PROCESSES		INFR	DATE		
		• TOLERANCES:		QA	DATE	B 28812 10396-500	
		• ANGLES: ± 2°		RLSE	DATE		
		• 2 PL ± .005 (1.3)					
		• 2 PL ± .015 (4)					
		• REMOVE ALL BURRS AND SHARP EDGES R.03 MAX					
		• CONCENTRICITY MACHINED DIA: .002 FIM					
		• MACHINE TOOL REPAIR: .003 MAX					
NEXT APPLICATION		USED ON				REV	
APPLICATION		THIRD ANGLE PROJECTION				SCALE 1:2	
						SHEET 1 OF 1	

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