


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

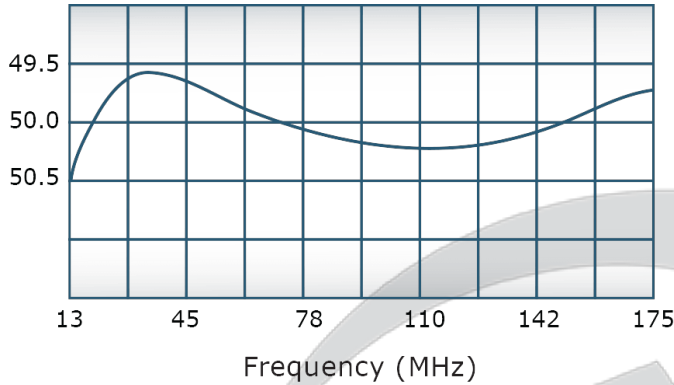


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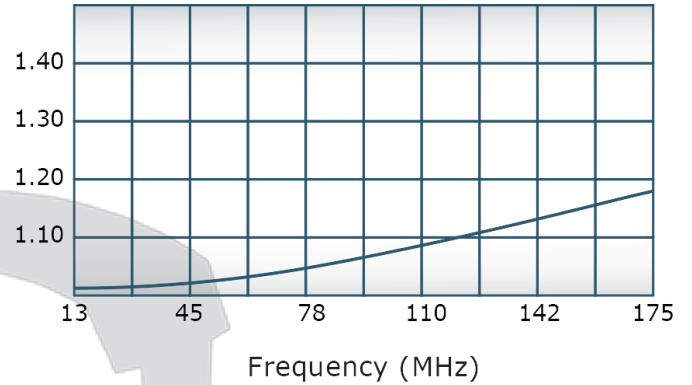
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Performance Data (Specifications subject to change without notice):

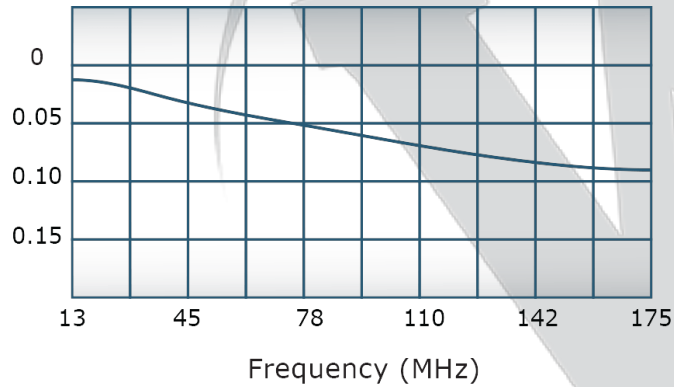
Coupling:



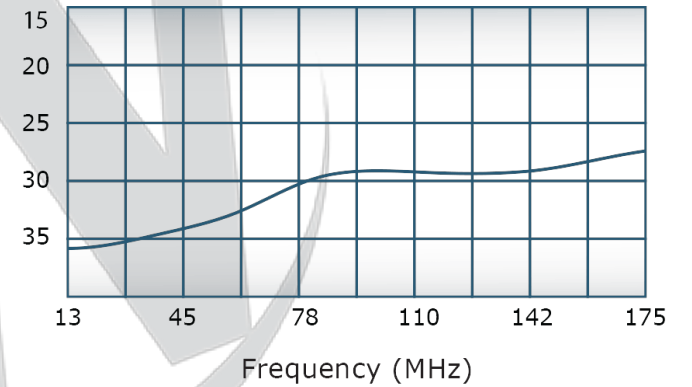
VSWR:



Insertion Loss:



Directivity:

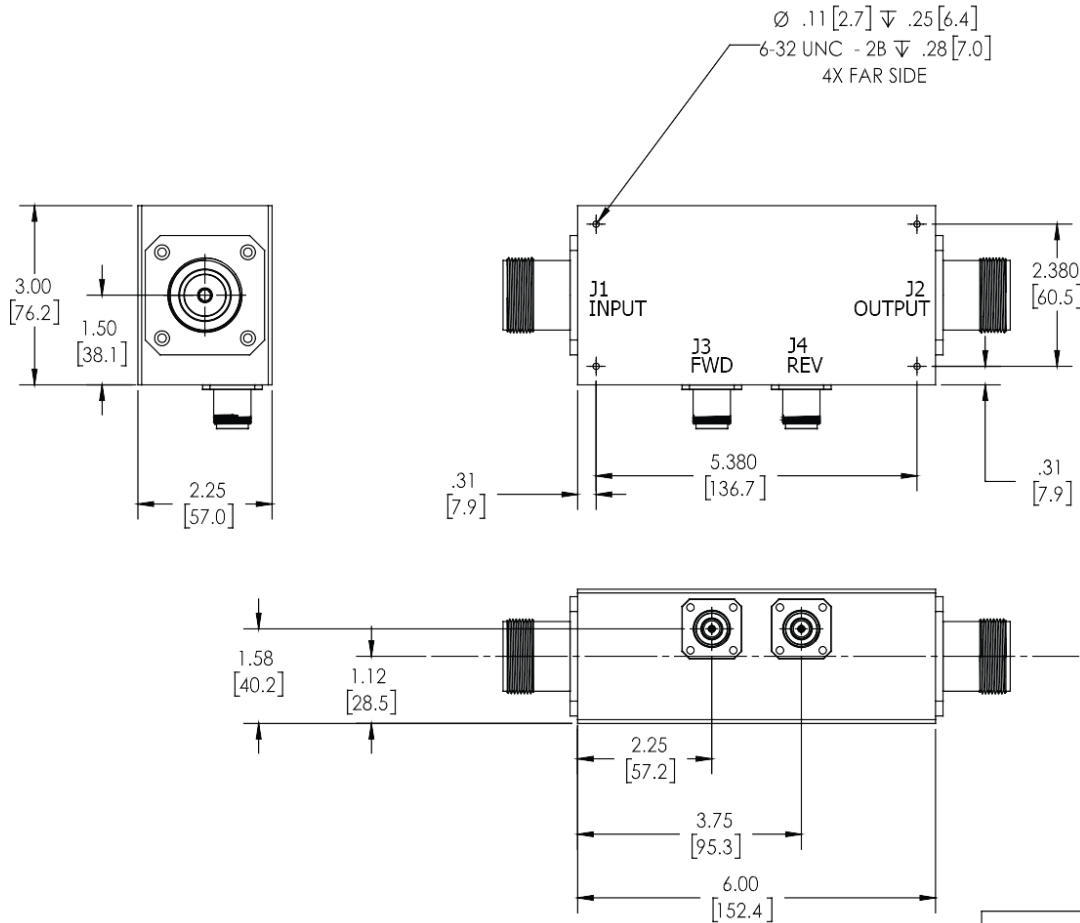


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	10/29/2018	CS



UNLESS OTHERWISE SPECIFIED	OWN	DATE	PLP	10/25/2018	17 Jon Barrett Rd Patterson, NY 12563
• INTERPRET DRAWING JAW MIL-STD-100	CHK	DATE	CS	10/29/2018	WELATON SINCE 1965
• DIMENSIONING PER ASME Y14.3M-2009	ENGR	DATE			TITLE
• PRESENTATIONAL DIMS FOR REF ONLY	MFR	DATE			SIZE CASE CODE DWG NO
• DIMENSIONS ARE IN INCHES (mm)	QA	DATE			B 28812 10396-500
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	RLSE	DATE			SCALE 1:2
• TOLERANCES:					SHEET 1 OF 1
ANGLES: ± .2°					
2 PL ± .005 (1.3)					
2 PL ± .015 (4)					
• REMOVE ALL BURRS AND SHARP EDGES R.02 MAX					
• CONCENTRICITY MACHINED DIA: .002 FIM					
• MACHINE TOOL REPAIR/1-.003 MAX					
NEXT ASSY	USED ON	APPLICATION	THIRD ANGLE PROJECTION		

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