

PRODUCT DATA SHEET

C6148

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.

Electrical Specifications:

Frequency: 800 - 3000 MHz
Power: 200 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.75 dB Max.
VSWR (ML): 1.30:1 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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6148-10	N Female	N Female	N Female	N Female
C6148-12	N Female	N Female	SMA	SMA
C6148-13	N Female	N Female	BNC	BNC
C6148-20*	7/16 Female	7/16 Female	N Female	N Female
C6148-22*	7/16 Female	7/16 Female	SMA	SMA
C6148-23*	7/16 Female	7/16 Female	BNC	BNC
C6148-610	N Female	N Male	N Female	N Female
C5681-627*	7/16 Female	7/16 Male	N Female	N Female
C5681-727*	7/16 Male	7/16 Female	N Female	N Female
C5681-728*	7/16 Male	7/16 Female	SMA	SMA

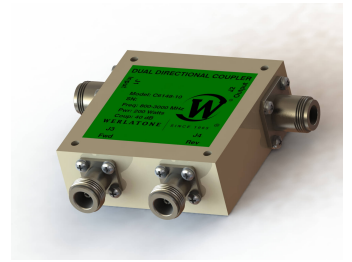
(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



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Model C6148

Connectorized Directional Couplers

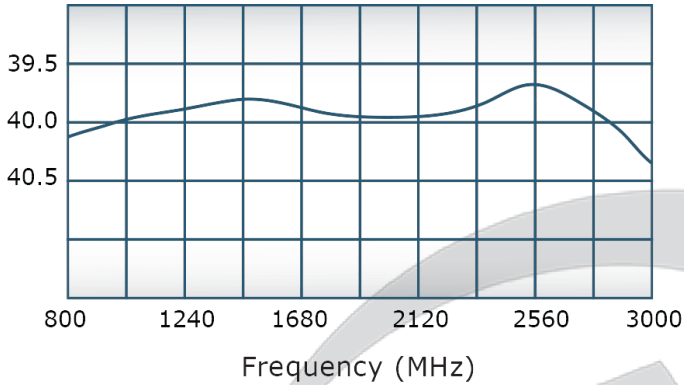


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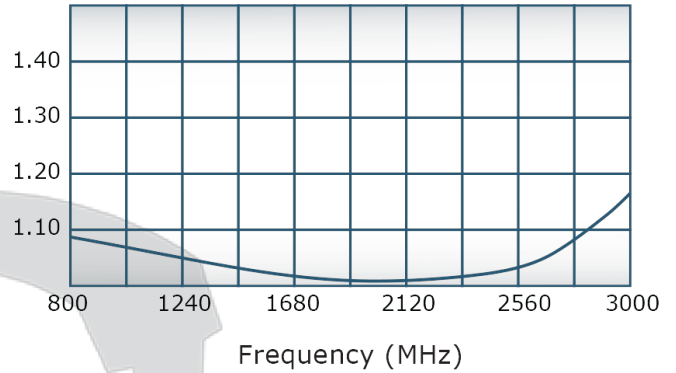
C6148

Performance Data (Specifications subject to change without notice):

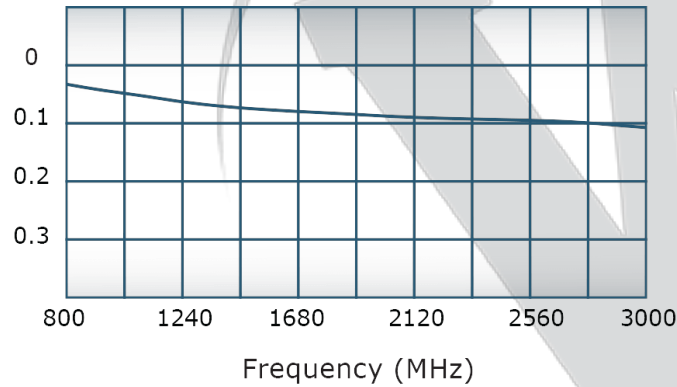
Coupling:



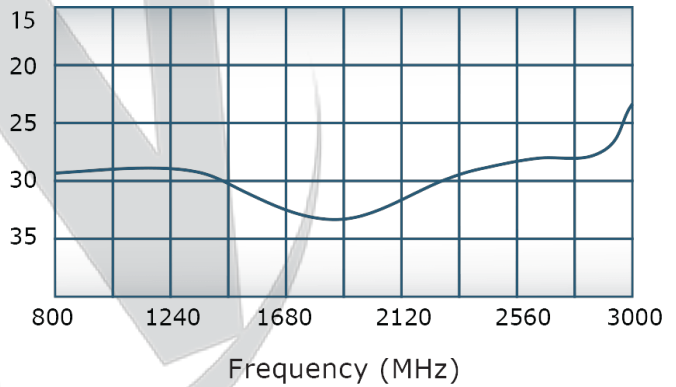
VSWR:



Insertion Loss:



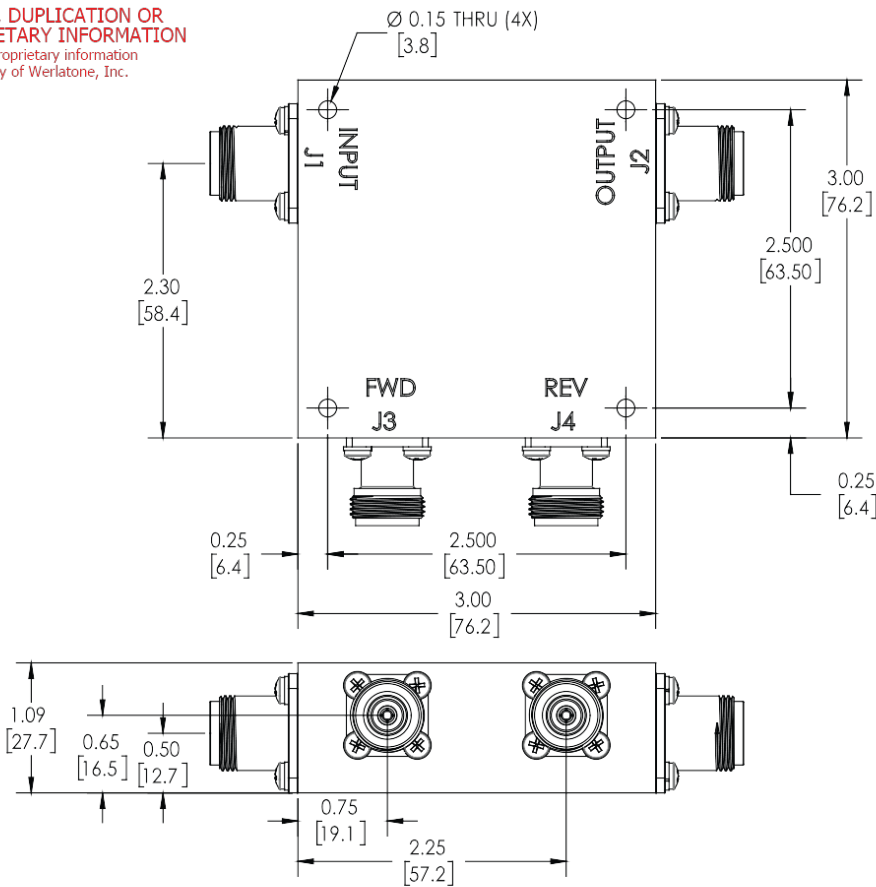
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING JAW MIL-STD-100		CHK	7/5/2001	TITLE		REV	
• DIMENSIONING PER ASME Y14.5M-2009		ENGR	DATE	OUTLINE		A	
• PARENTHETICAL INFO FOR REF ONLY		MFG	7/5/2001	SIZE		CAGE CODE	
• DIMENSIONS ARE IN INCHES		QA	DATE	B		10379-505	
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ELSE	DATE	SCALE		1:1	
• TOLERANCES:				SHEET		1 OF 1	
• ANGLES: ± 2°							
• 2 PL. ± .005 [1.3]							
• 2 PL. ± .005 [1.3]							
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
• CONCENTRICITY MACHINED DIA: .002 FIM							
• MACHINE TOOL MISMATCH: .003 MAX							
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION			
APPLICATION							

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