


PRODUCT DATA SHEET
C8147

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: 20 - 130 MHz
 Power: 3000 W CW
 Coupling: 60 ± 1.0 dB Max.
 Insertion Loss: 0.15 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.20:1 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)
C8147-22	7/16 Female	7/16 Female	SMA	SMA
C8147-30	LC Female	LC Female	N Female	N Female
C8147-33	LC Female	LC Female	BNC	BNC
C8147-503	SQS Female	SQS Female	BNC	BNC
C8147-728	7/16 Male	7/16 Female	SMA	SMA

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

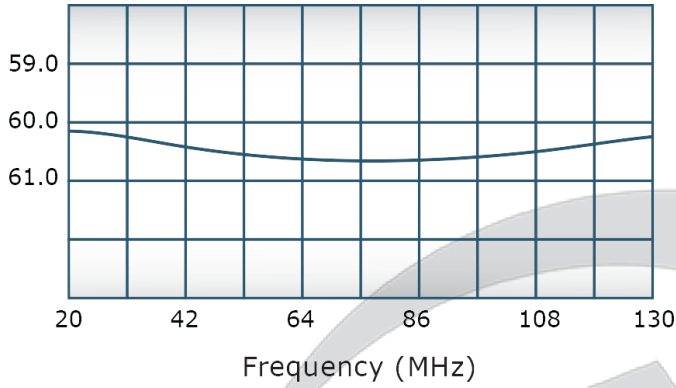


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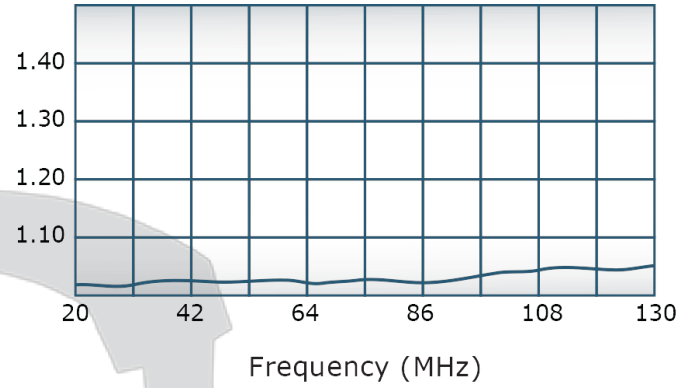
C8147

Performance Data (Specifications subject to change without notice):

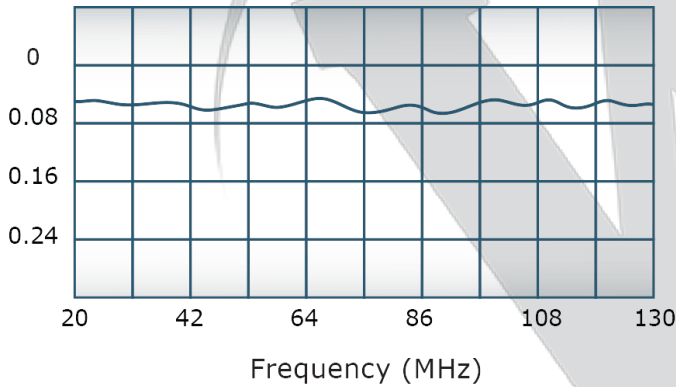
Coupling:



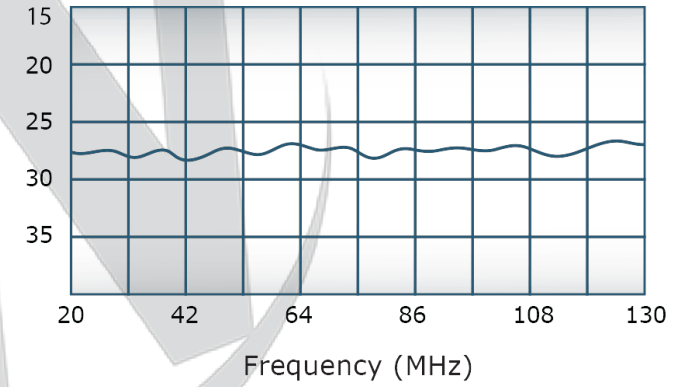
VSWR:



Insertion Loss:



Directivity:



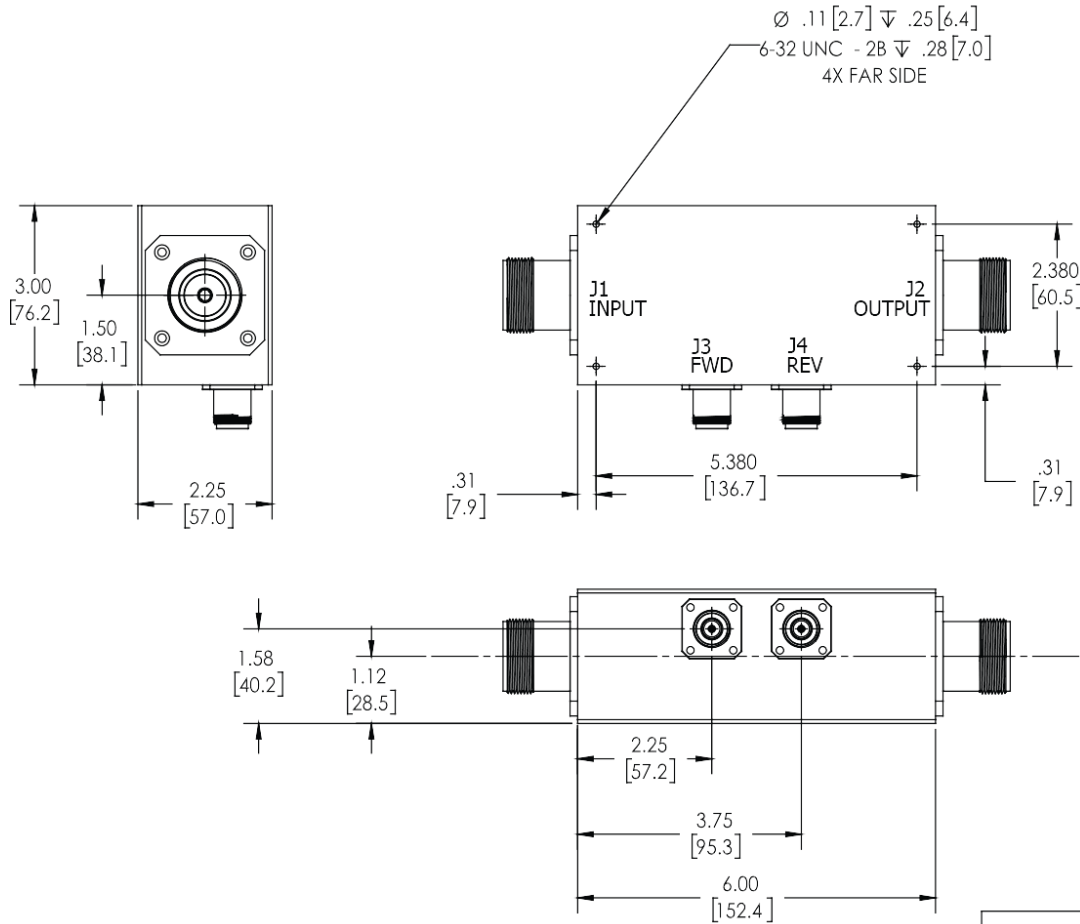
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Werlatone, Inc.

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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	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563			
<ul style="list-style-type: none"> • INTERPRET DRAWING JAW MIL-STD-100 • DIMENSIONING PER ASME Y14.3M-2009 • PRELIMINARY DIMS FOR REF ONLY • DIMENSIONS ARE IN INCHES (mm) • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: 	CHK	DATE	CS	10/29/2018				
<ul style="list-style-type: none"> • 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/CH. .003 MAX 	ENGR	DATE			TITLE			
	MFR	DATE			SIZE	CASE CODE	DWG NO	REV
	QA	DATE			B	28812	10396-500	-
	RLSE	DATE			SCALE	1:2		SHEET 1 OF 1
NEXT ASSY	USED ON	APPLICATION	THIRD ANGLE PROJECTION					

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