



PRODUCT DATA SHEET

D7974

Werlatone® Mismatch Tolerant® High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

Features:

High Power

Wide Bandwidths

Small Size

High Isolation

Custom Designs Available

Electrical Specifications:

Frequency 20-500

y: MHz

Power: 50 W CW

Insertion 0.35 dB

Loss: Max.

VSWR: 1.30:1

Max.

Phase $\pm 3^\circ$ Max.

Balance:

Amplitude 0.2 dB

e Max.

Balance:

Isolation: 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

Size:

3.0 x 1.6 x 0.8"

Connector Configurations:**Model****Sum Port (J1)****Input/Output (J2)****Input/Output (J3)**

D7974-102

SMA

SMA

SMA

When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-

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Way Combiners are available upon request.



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WERLATONE

Model D7974

Combiners In-Phase Connectorized

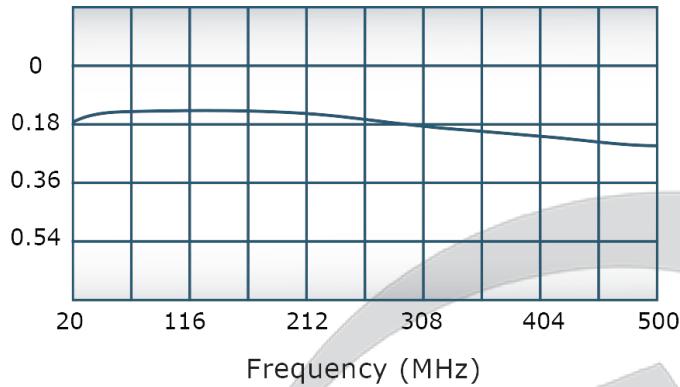


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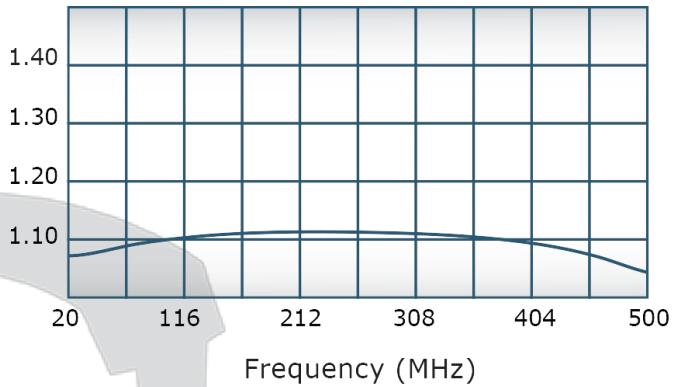
D7974

Performance Data (Specifications subject to change without notice):

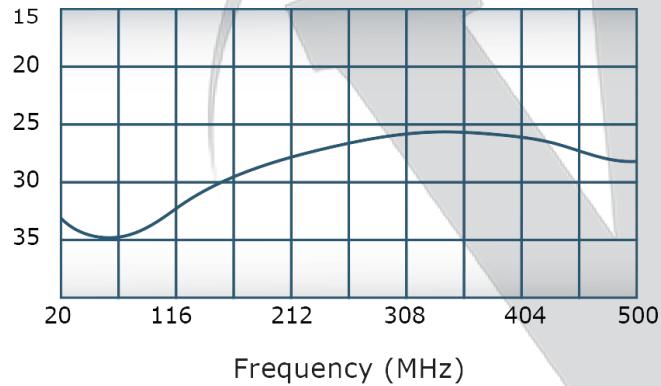
Insertion Loss:



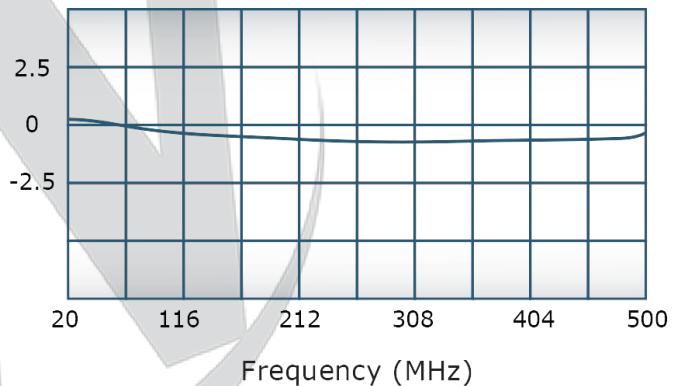
VSWR:



Isolation:



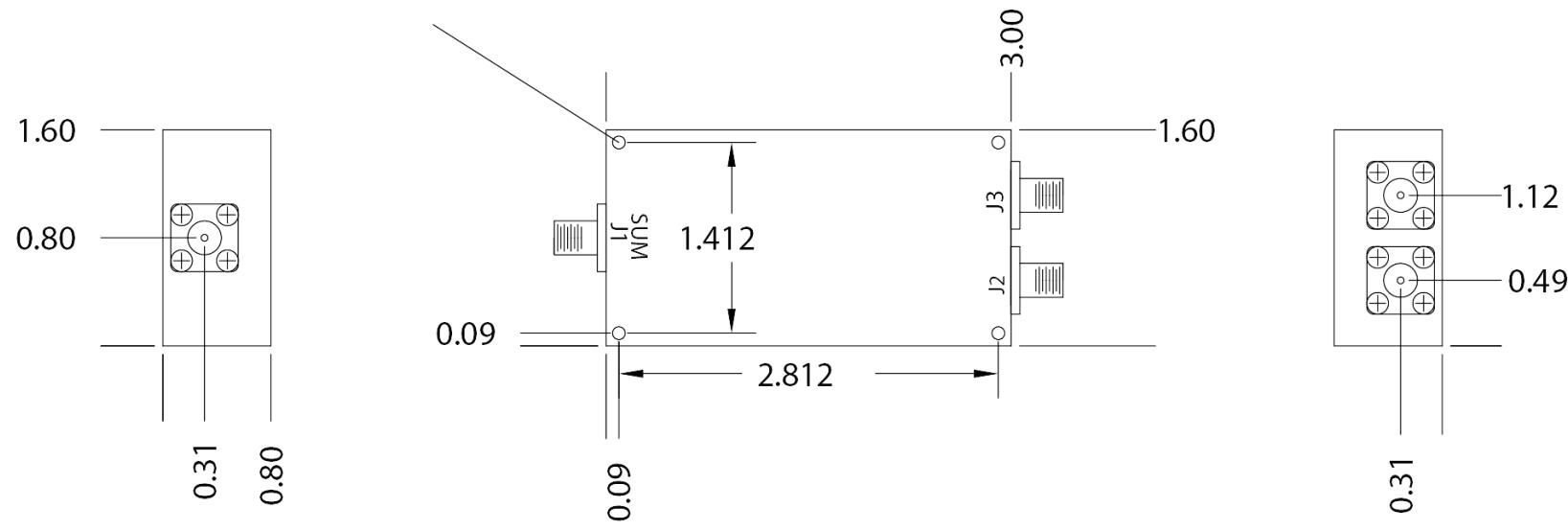
Phase Balance:



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DATE	SYM	REVISION RECORD	AUTH	DR	CK



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TOLERANCE		WERLATONE INC.	
XX +/- .015	USED ON:	SCALE	DRAWN BY: JD
XXX +/- .005			APPVD BY: CS
TITLE		OUTLINE	
		DATE	DRAWING NUMBER
		12/7/06	10658-500

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