

PRODUCT DATA SHEET

D9042

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: 3000 - 6000 MHz
Power: 250 W CW
Insertion Loss: 0.35 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.2 dB Max.
Isolation: 15 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
Weight: 0.5 oz.
Size: 2.0 x 2.03 x 0.87"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D9042-10	N Female	N Female	N Female
D9042-12	N Female	SMA	SMA
D9042-102	SMA	SMA	SMA
D9042-300	TNC	TNC	TNC

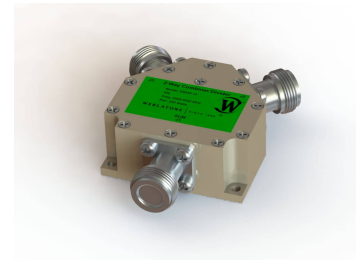
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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



WERLATONE

Model D9042

Combiners In-Phase Connectorized

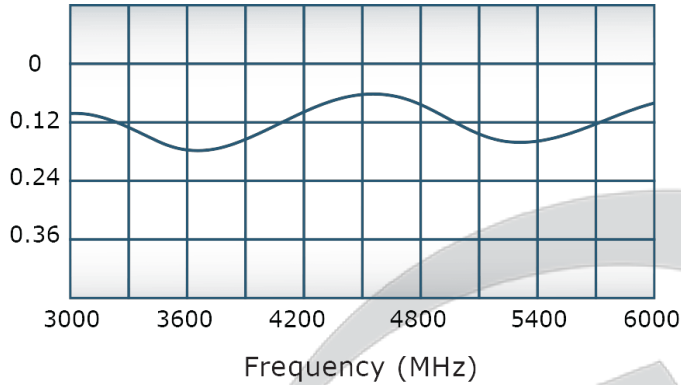


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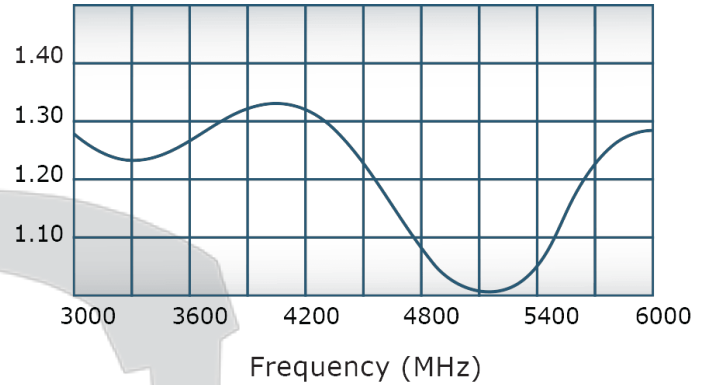
D9042

Performance Data (Specifications subject to change without notice):

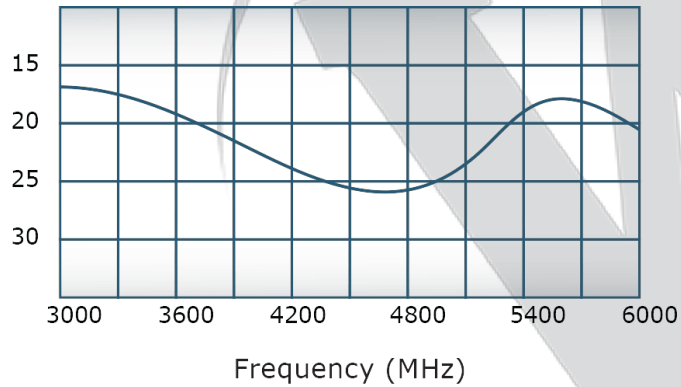
Insertion Loss:



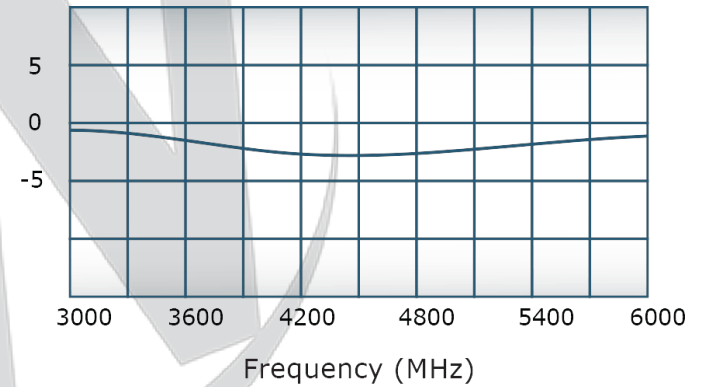
VSWR:



Isolation:



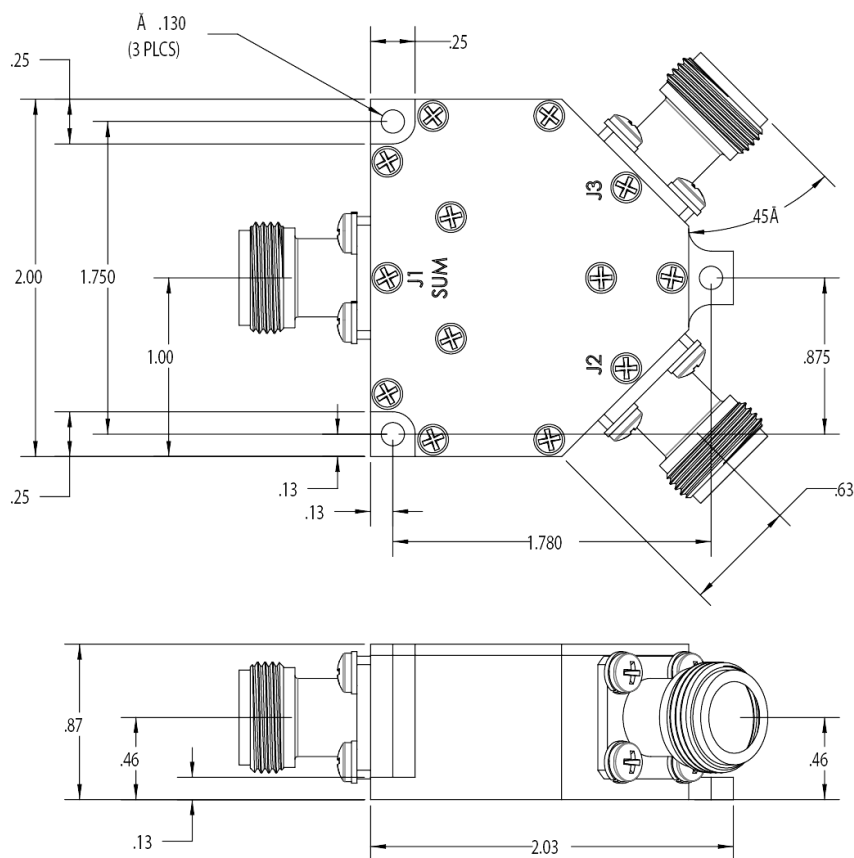
Phase Balance:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	7/1/2011	BW
A	ECN # 5495	11/15/2011	BW
B	NEW RELEASE	8/12/2020	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- NOTES: UNLESS OTHERWISE SPECIFIED
1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1-J3: N FEMALE

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERBLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
		HARDPIET DRAWING NO. 001-000		SD	8/12/2000				
		DRAWING DATE FOR SCALE 1/4" = 6" AS SHOWN		CHR	DATE				
		PROPORTION: 3/4" = 1" (SEE NOTE)		CS	8/12/2000				
		DRAWING DATE IN INCHES:		ENR	DATE		TITLE		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOOLS/CLIPS:		WFR	DATE	OUTLINE			
		ANGLES 2 X 2 3/4" X 1/4" X 1/4" 3/4" X 1/4" X 1/4" 3/4" X 1/4" X 1/4"		SA	DATE	SIZE	CAGE CODE	OWNNO	REV
		REMOVE ALL BOLDING AND SHARPENED 8:00 MAX				B	28812	20780-500	
		CONCENTRICITY MACHINED DIA. AND 200M							
		MACHINE TOOL MACHINED 200M DIA							
NEXT ASSY		USED ON		FILE	DATE	SCALE 3:1		SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION							

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