

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:

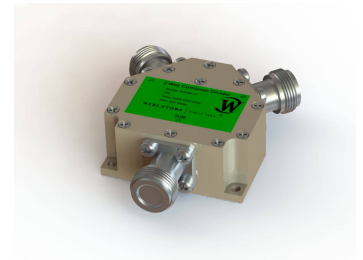
Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D9042-10	N Female	N Female	N Female
D9042-12	N Female	SMA	SMA
D9042-102	SMA	SMA	SMA
D9042-300	TNC	TNC	TNC

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

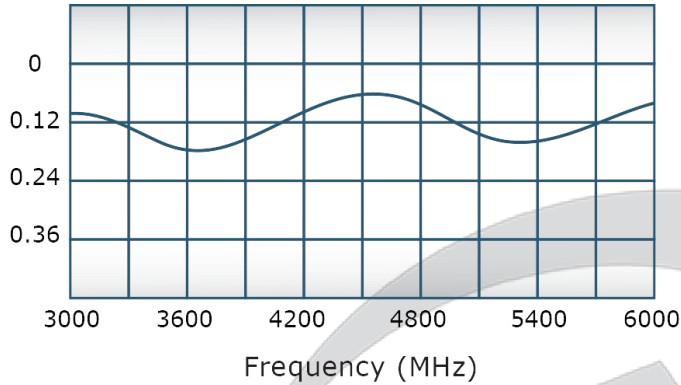


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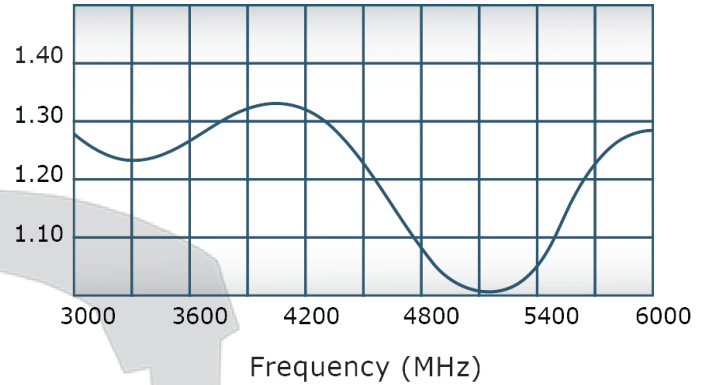
D9042

Performance Data (Specifications subject to change without notice):

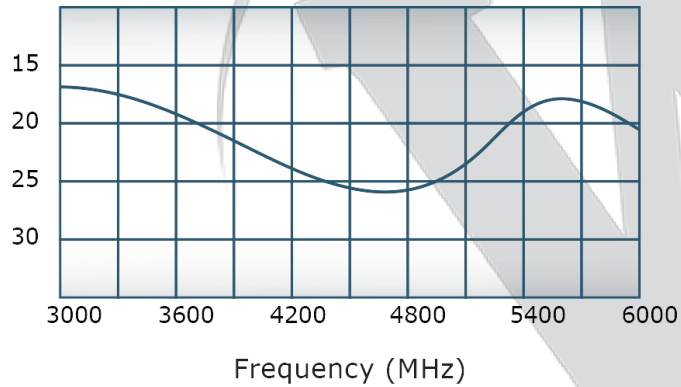
Insertion Loss:



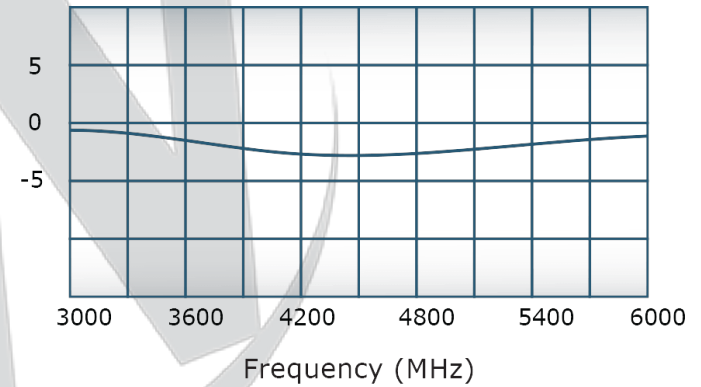
VSWR:



Isolation:



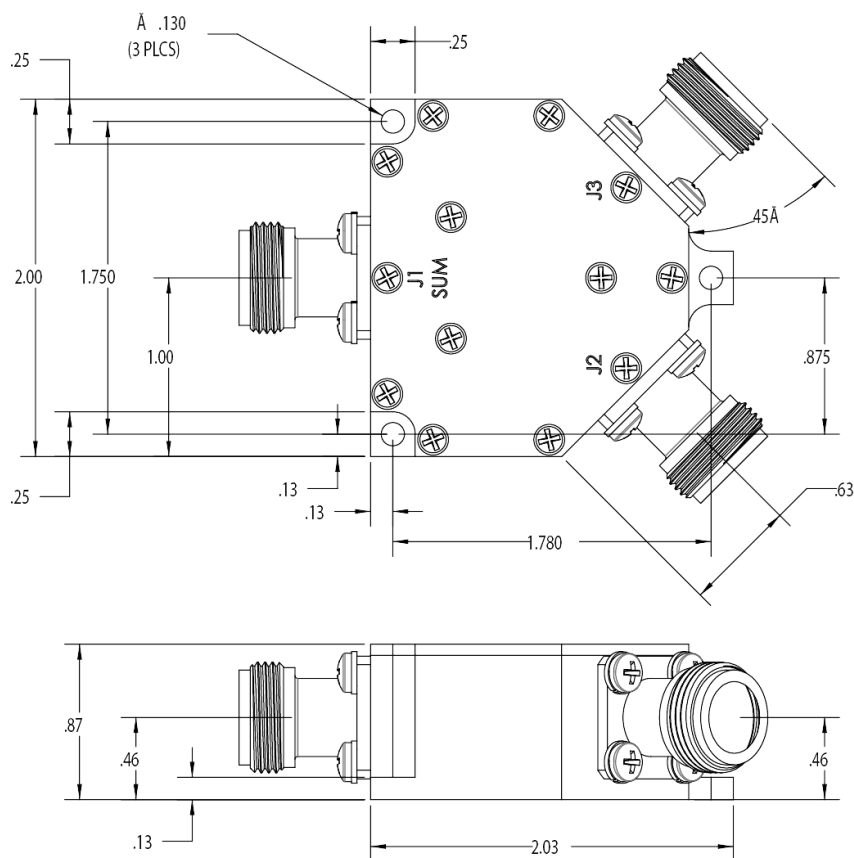
Phase Balance:



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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

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

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WORLSTONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
		INTERPRET DRAWING BY: ML-001-106 ORDERING INFO: PER EXHIBIT A OR 2000 PROPERTY TAX: 8050 1/2 RD NEW HAVEN ORDERING INFO: IN PROGRESS DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES:		SD	8/12/2020		 THIRD ANGLE PROJECTION		
		FINISH: 3.25 DIM: 1/16" (0.001") SPCL: 1/16"		CHL	DATE				
		REMOVE ALL BIDDING AND SHARP EDGES: RUN MARK CONCENTRICITY MACHINE: 0.004, 0.002 FIRM MACHINE TOOL: HERRICK'S 400000		CS	8/12/2020				
				ENGR	DATE				
				APPR	DATE				
D9042-10				SA	DATE	OUTLINE SIZE CASE CODE CWO NO B 28812 20780-500		RE	
NEXT ASSY	USED ON			SCALE	3:2				
APPLICATION								SHEET 1 of 1	

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