

## 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

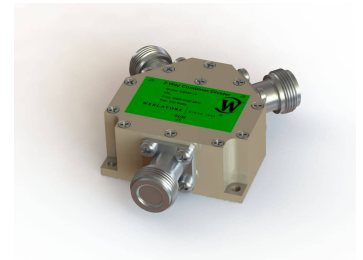
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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

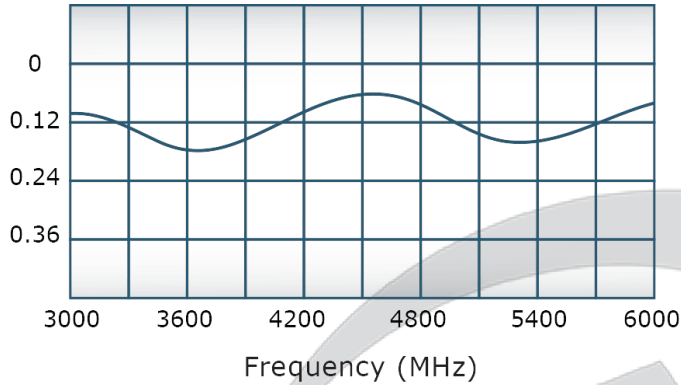


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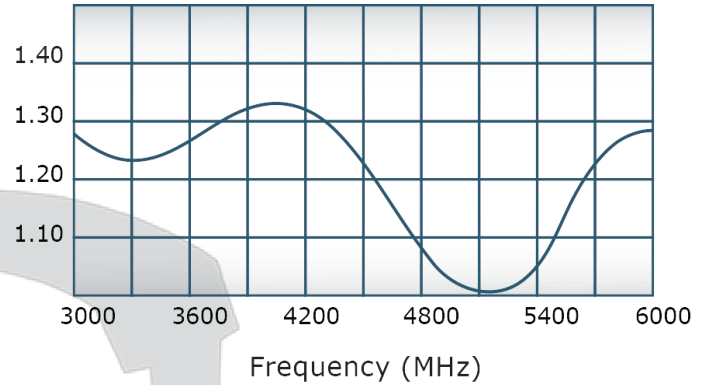
D9042

### Performance Data (Specifications subject to change without notice):

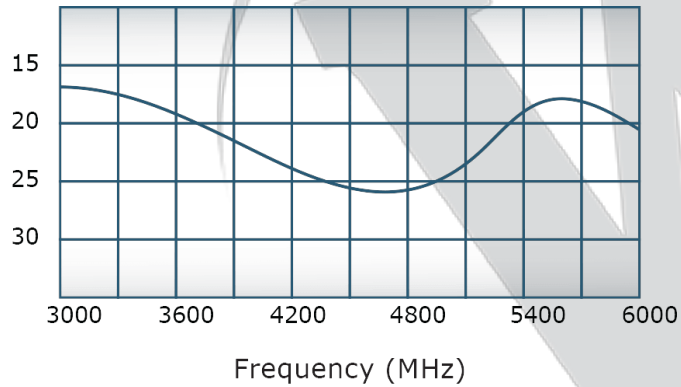
Insertion Loss:



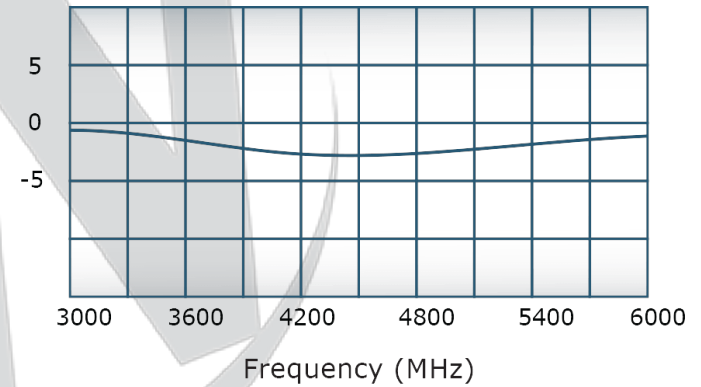
VSWR:



Isolation:



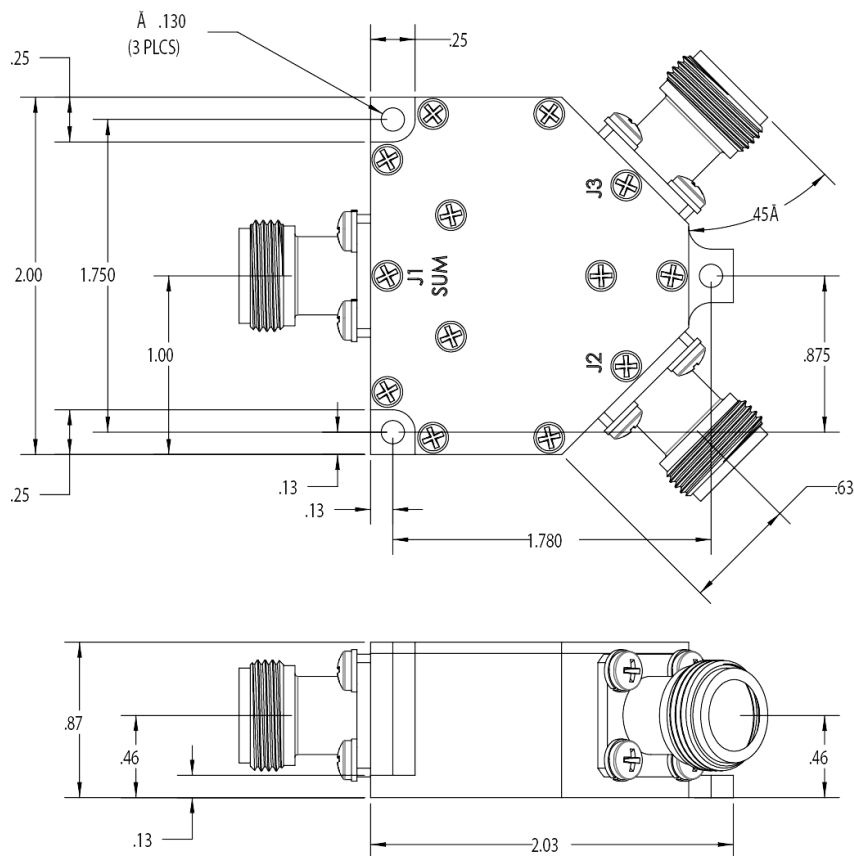
Phase Balance:



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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

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		 WERNER   SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING PER MIL 201-100 DIMENSIONS ARE FOR EXACT 1/4" OR 2000 PROPORTIONS MAY BE USED ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSING TOLERANCES: FINISH ±.01 DRA ±.005, ±.01 DRA ±.015 REMOVE ALL BURRS AND SHARP EDGES 8:11 MAX CONCENTRICITY MAXIMUM DIA. AND 20% MACHINE TOOL WORNNESS 20:1 MAX		SD		8/12/2020		TITLE			
				CHR		DATE					
				CS		8/12/2020					
				ENGR		DATE					
				WFR		DATE					
				SA		DATE		SIZE <b>B 28812</b>		CHRG CODE <b>20780-500</b>	
				REL		DATE		SCALE <b>3:1</b>		SHEET <b>1</b> OF <b>1</b>	
D9042-10 USED ON		APPLICATION		THIRD ANGLE PROJECTION							
NEXT ASSY											

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