
**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:                ± 5° Max.  
 Amplitude Balance:         0.2 dB Max.  
 Isolation:                         15 dB Min.

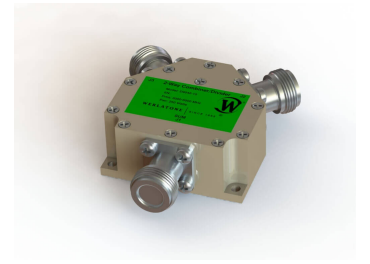
**Mechanical Specifications:**

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"

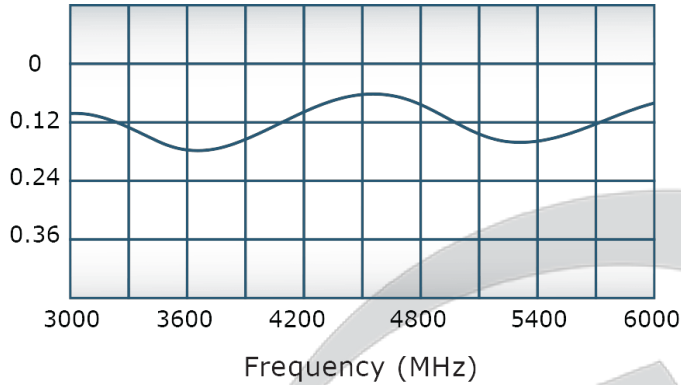
**Connector Configurations:**

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

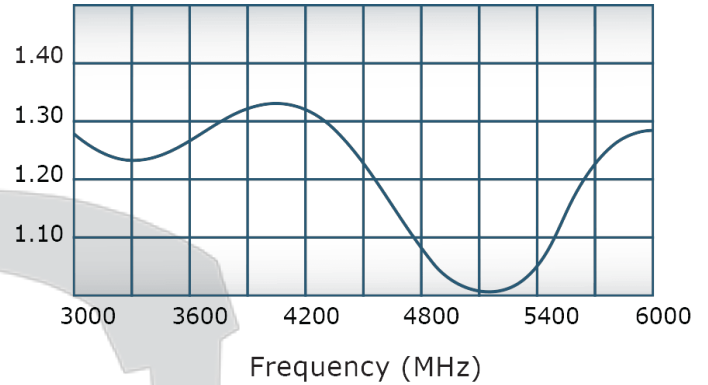
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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


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

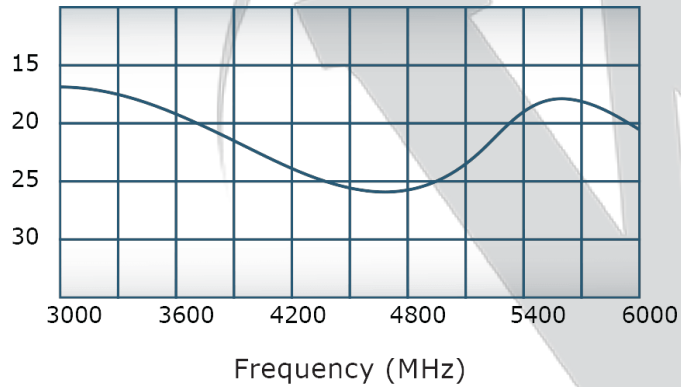
Insertion Loss:



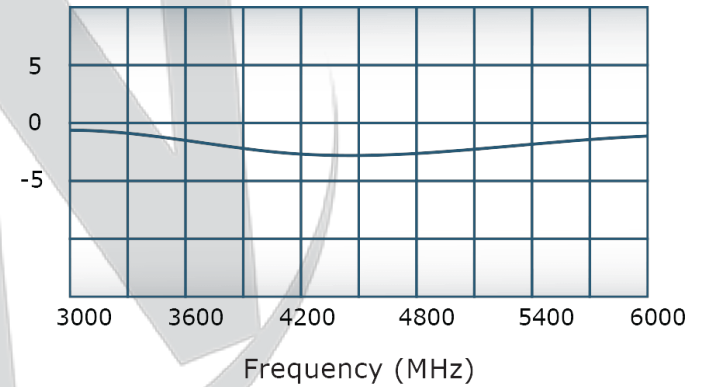
VSWR:



Isolation:



Phase Balance:

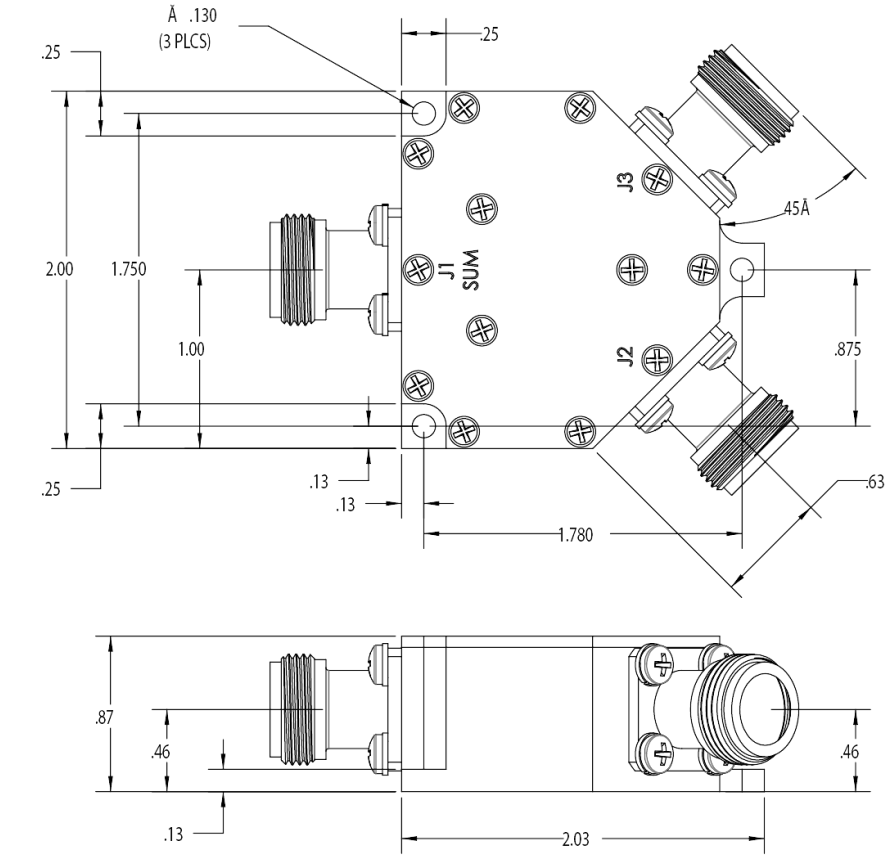


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Werlatone, Inc.

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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		DATE	8/12/2020	W	WERLATONE	SINCE 1905	17 Jon Barrett Rd Patterson, NY 12563
INTERRUPT DRAWING AND MFG. 2018-2019	ENGINEERING DESIG. SIZE 14.500-2000	SD	8/12/2020	CS	DATE	8/12/2020	TITLE
AMBIENT METAL INFO FOR REF ONLY	OVERSIZING AND DIMENSIONS	ENGR	DATE	DATE	DATE	DATE	SIZE
OPERATIONAL MFG. PROCESSES	TOLERANCES:	DATE	DATE	DATE	DATE	DATE	CAGE CODE
ANGLES: 1/4	3/16 & 1/8	DATE	DATE	DATE	DATE	DATE	DWG NO
REMOVE ALL BURRS AND SHARP EDGES FOR MFG.	CONCENTRICITY MAXIMUM DIA. AND FIRM	DATE	DATE	DATE	DATE	DATE	REV
MACHINE TOOL NUMBER 202 0402	THIRD ANGLE PROJECTION	DATE	DATE	DATE	DATE	DATE	SCALE
D9042-10	USED ON	DATE	DATE	DATE	DATE	DATE	B
NEXT ASSY	APPLICATION	DATE	DATE	DATE	DATE	DATE	28812
		DATE	DATE	DATE	DATE	DATE	20780-500
		DATE	DATE	DATE	DATE	DATE	3:2
		DATE	DATE	DATE	DATE	DATE	1
		DATE	DATE	DATE	DATE	DATE	SHEET 1 OF 1

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