

## PRODUCT DATA SHEET

**D10903**

**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: 500 - 1500 MHz  
Power: 200 W CW  
Insertion Loss: 0.4 dB Max.  
VSWR: 1.35:1 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: 0.75 lbs.  
Size: 4.7 x 2.0 x 0.8"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D10903-10	N Female	N Female	N Female
D10903-12	N Female	SMA	SMA
D10903-102	SMA	SMA	SMA

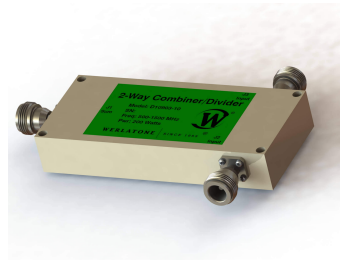
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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



# WERLATONE

Model D10903

Combiners In-Phase Connectorized

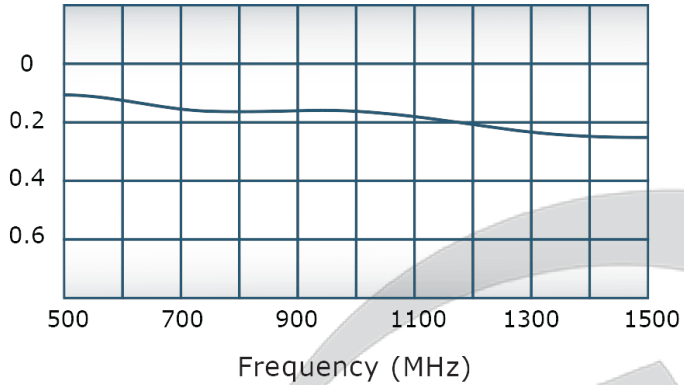


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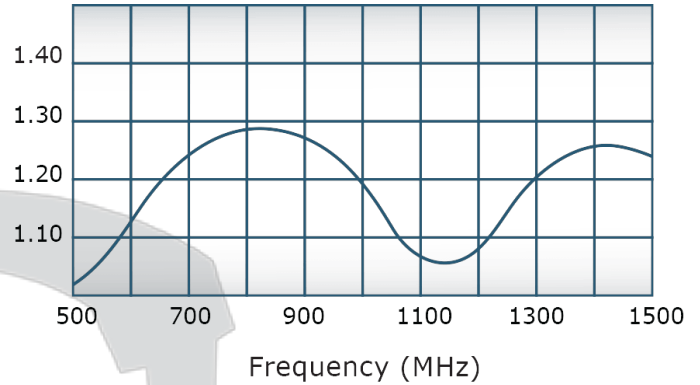
D10903

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

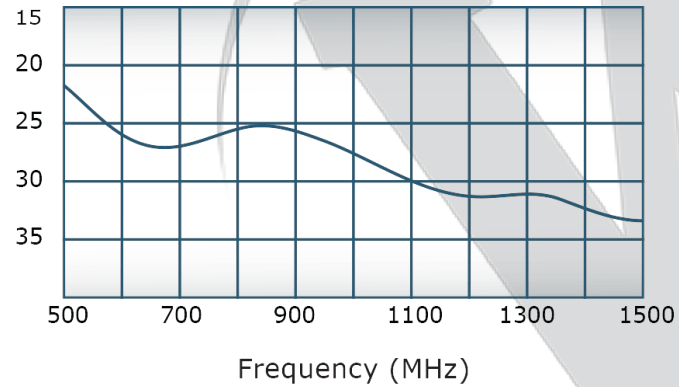
Insertion Loss:



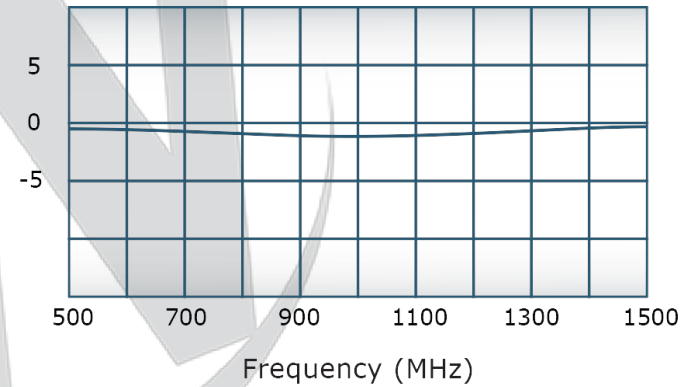
VSWR:



Isolation:



Phase Balance:



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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

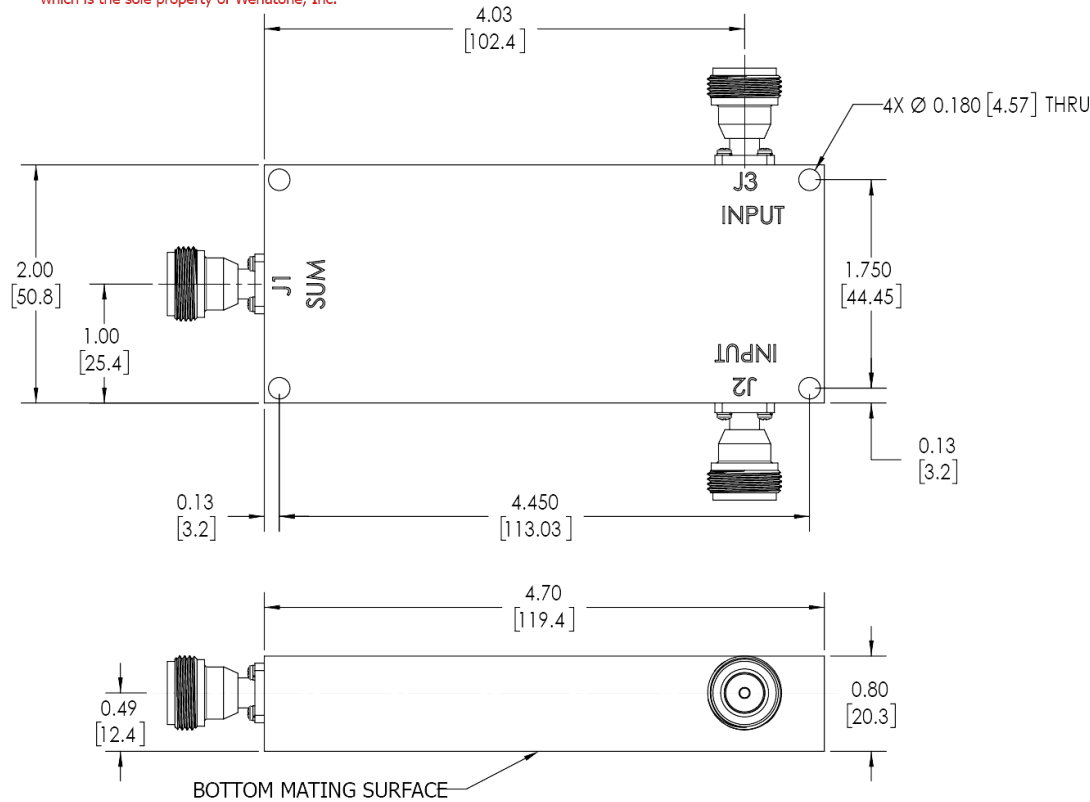
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9173	09/21/16	CS
B	ECN 9696	11/21/19	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

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



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	<div><div></div><div>WERLATONE  SINCE 1965</div></div>		17 Jon Barrett Rd Patterson, NY 12563				
		INTERPRET DRAWING 1000 MIL-STD-100		SD	DATE			11/21/2019				
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE							
		PARENTHESES FOR REF ONLY		CS	DATE			11/21/2019				
		DIMENSIONS ARE IN INCHES		ENGR	DATE			TITLE				
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		NGFR	DATE	<div>OUTLINE</div>						
		TOLERANCES:		QA	DATE				SIZE	CAGE CODE	DWG NO	REV
		ANGLES ± 2°		RLSE	DATE				SCALE	20291-501		B
		3 PL ± .005 [13]							1:1			
		2 PL ± .015 [38]										
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX										
		CONCENTRICITY MACHINED DIA. .002 FIM										
		MACHINE TOOL MISMATCH .003 FIM										
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION								
APPLICATION												

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