

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

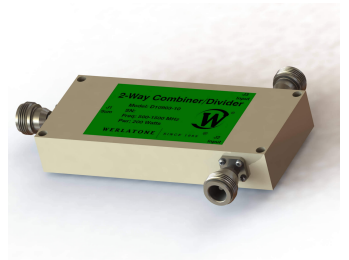
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

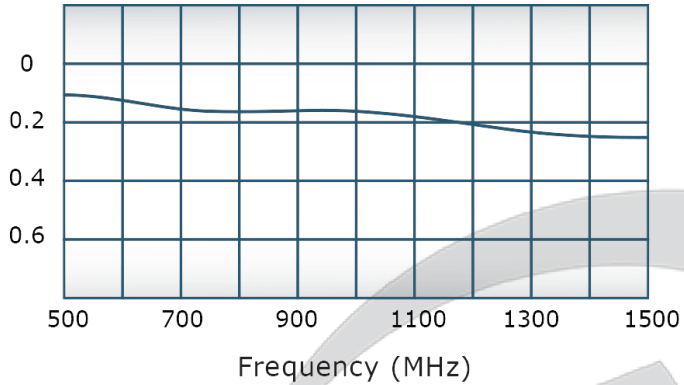


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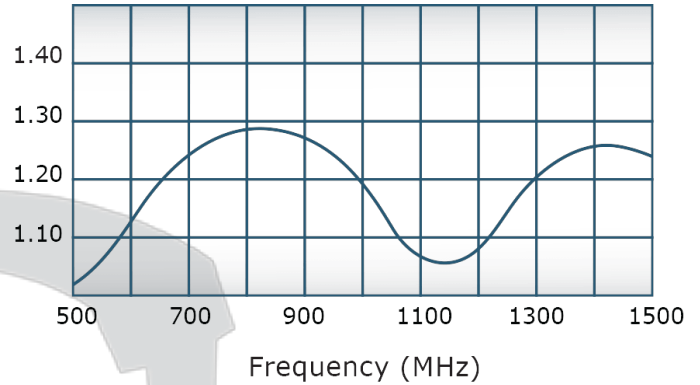
D10903

Performance Data (Specifications subject to change without notice):

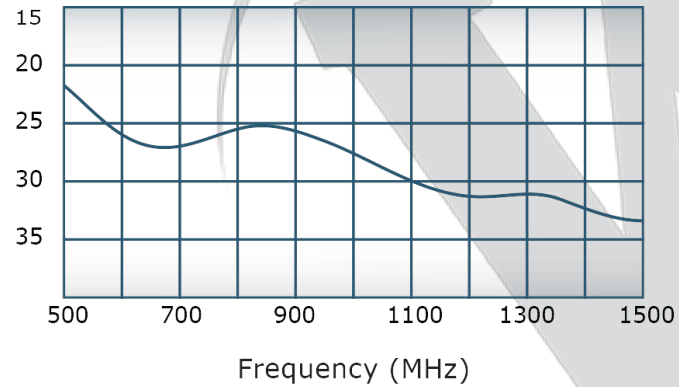
Insertion Loss:



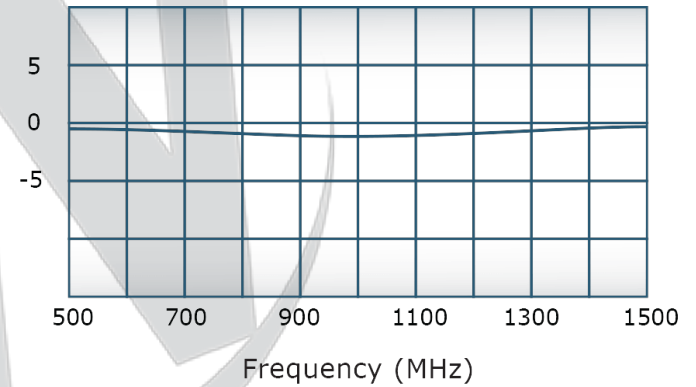
VSWR:



Isolation:



Phase Balance:



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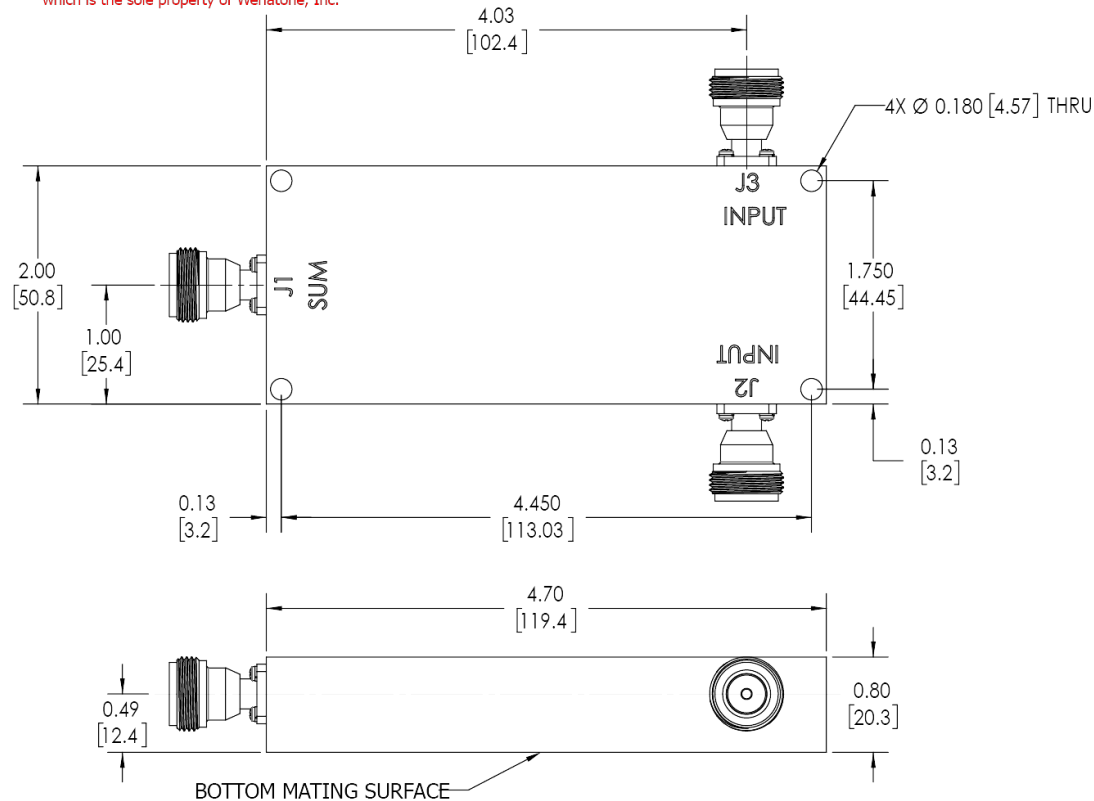
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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

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