


PRODUCT DATA SHEET
D9903

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 Custom Designs Available

Electrical Specifications:

Frequency: 649 - 651 MHz
 Power: 4000 W CW
 Insertion Loss: 0.3 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: $\pm 5^\circ$ Max.
 Amplitude Balance: 0.125 dB Max.
 Isolation: Non-Isolated

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: 6 lbs.
 Size: 7.73 x 3.0 x 3.0" Radial

Connector Configurations:

Model	Sum Port (J9)	Input/Output (J1-J8)
D9903-80	1 5/8 EIA	N Female

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.

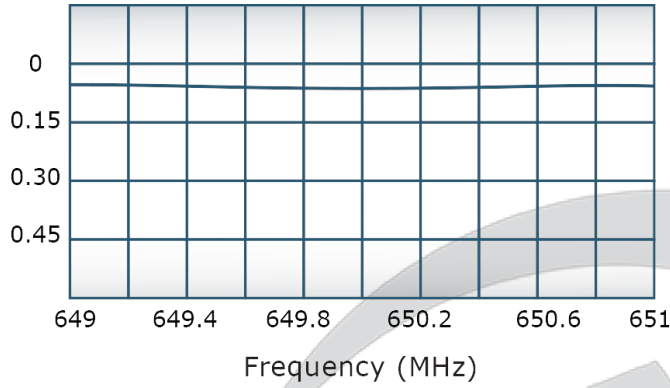


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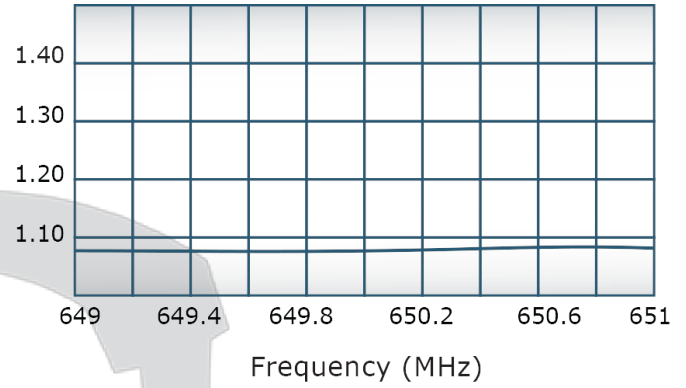
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Performance Data (Specifications subject to change without notice):

Insertion Loss:



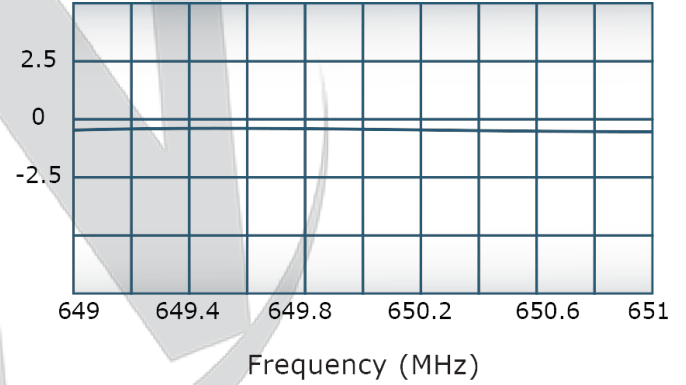
VSWR:



Since 1965:

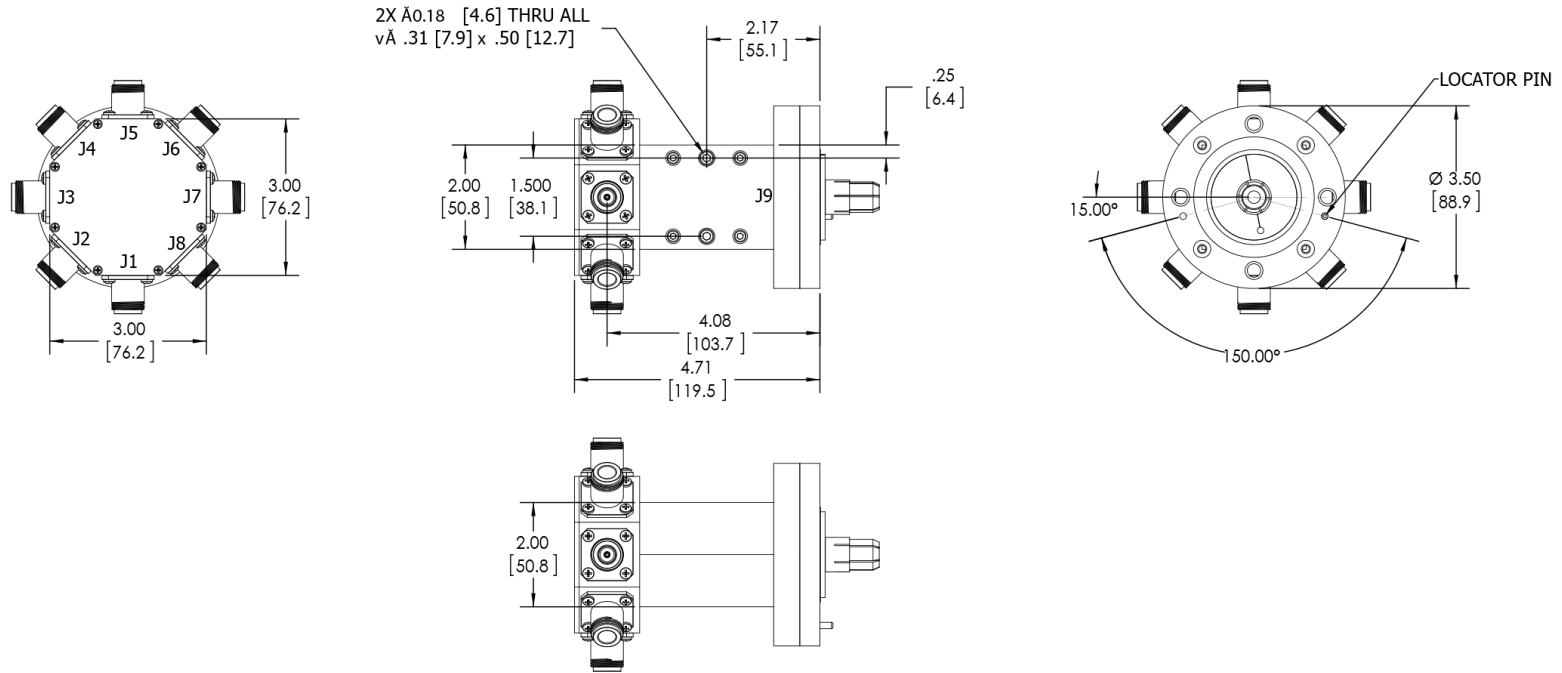


Phase Balance:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	1/21/2014	SC
A	ECN: 8606	3/21/2014	SC



UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SC	1/21/2014		
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE	
DIMENSIONAL UNITS ARE IN INCHES (mm)		CS	1/21/2014		
DIMENSIONAL UNITS APPLY BEFORE PROCESSES		ENGR	DATE	OUTLINE	
TOLERANCES:		BW	1/21/2014		
ANGLES = 3°		MPFR	DATE	SIZE	CAGE CODE
3 RL ± .005 [13]		QA	DATE	B	28812 21135-500
2 RL ± .015 [38]		RELE	DATE	SCALE	1:2
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SHEET	1 OF 1
CONCENTRICITY FRACTURED DIA. .002 FPM					
MACHINE TOOL MISMATCH .003 MAX					
NEXT ASSY	USED ON				
APPLICATION	THIRD ANGLE PROJECTION				

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