


**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:                ± 5° 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:**

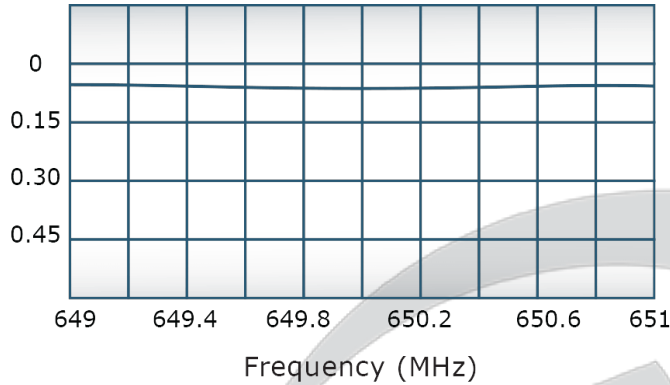
Model	Sum Port (J9)	Input/Output (J1-J8)
D9903-80	1 5/8 EIA	N Female

**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.

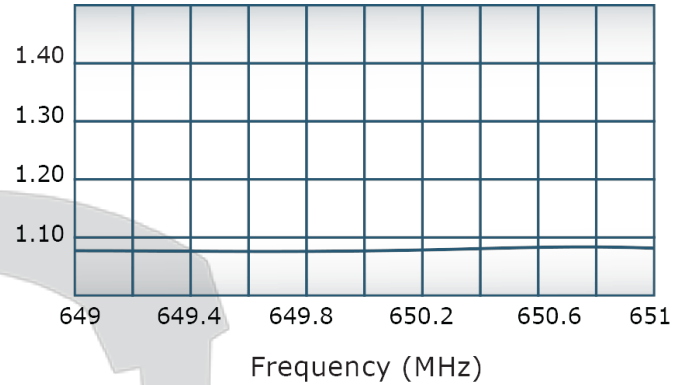


## Performance Data (Specifications subject to change without notice):

Insertion Loss:



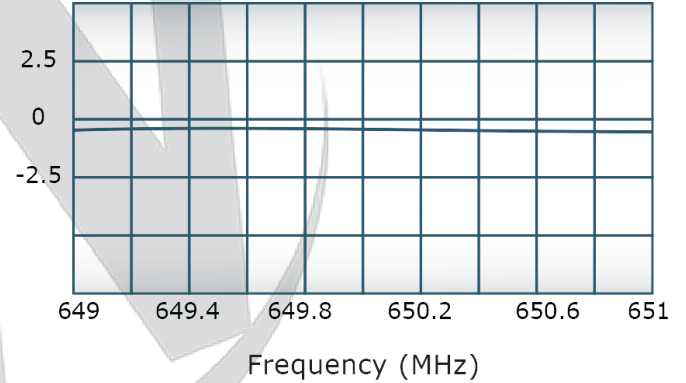
VSWR:



Since 1965:

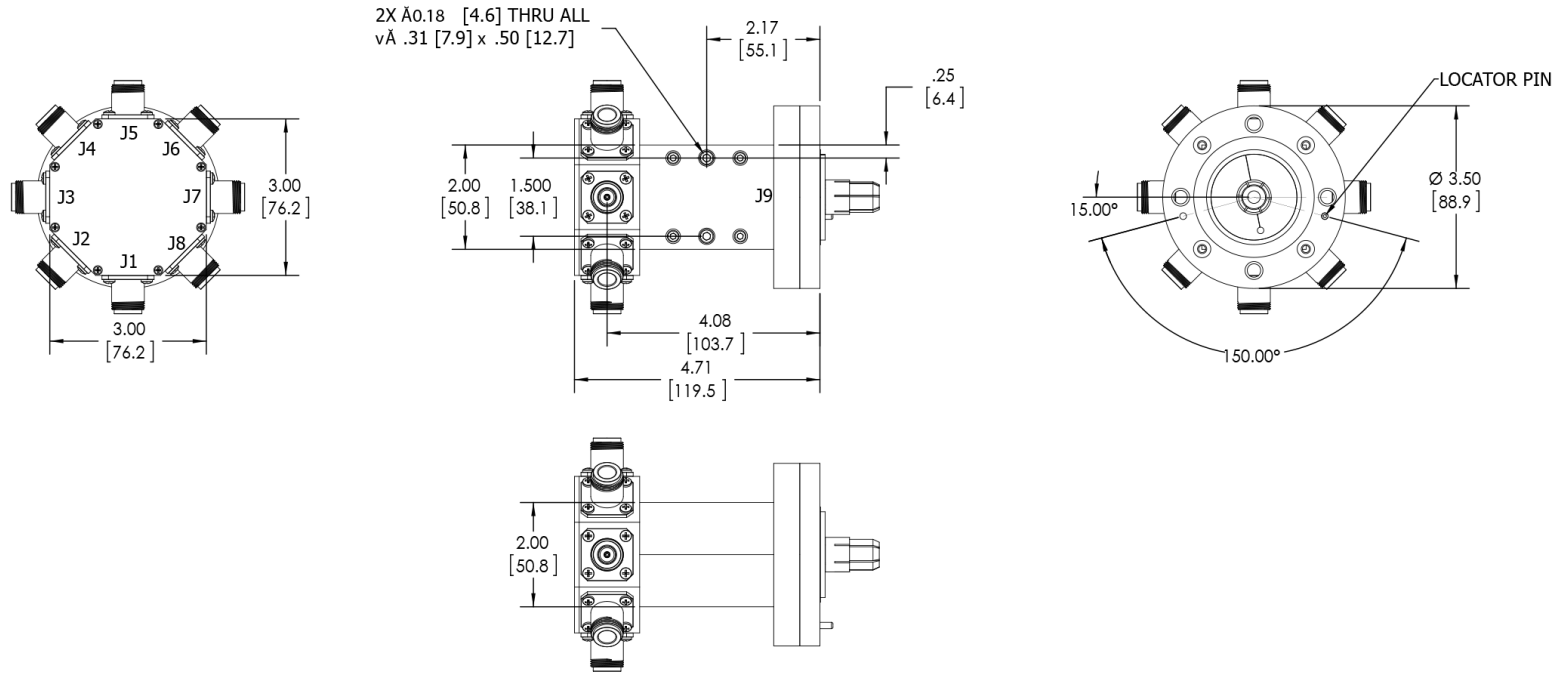


Phase Balance:



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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	 <b>WERLATONE SINCE 1965</b> 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	SIZE CAGE CODE DWG NO
TOLERANCES:		BW	1/21/2014	
ANGLES = 3°		MPFR	DATE	REV
3 RL ± .005 [13]		QA	DATE	
2 RL ± .015 [38]		RELE	DATE	SCALE
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				1:2
CONCENTRICITY FRACTIONED DIA - .002 FPM				B 28812 21135-500
MACHINE TOOL MISMATCH .003 MAX				A
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SHEET 1 OF 1
APPLICATION				

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