



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.

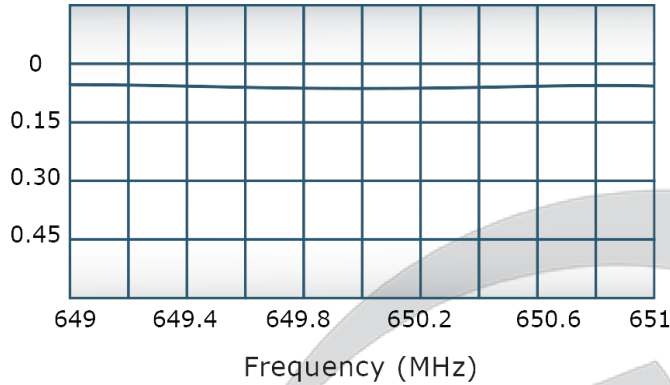


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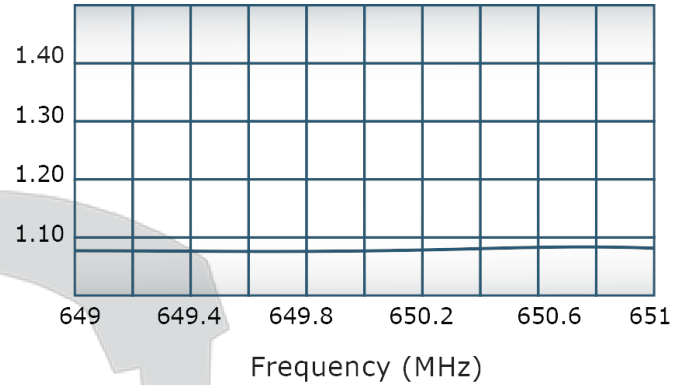
D9903

Performance Data (Specifications subject to change without notice):

Insertion Loss:



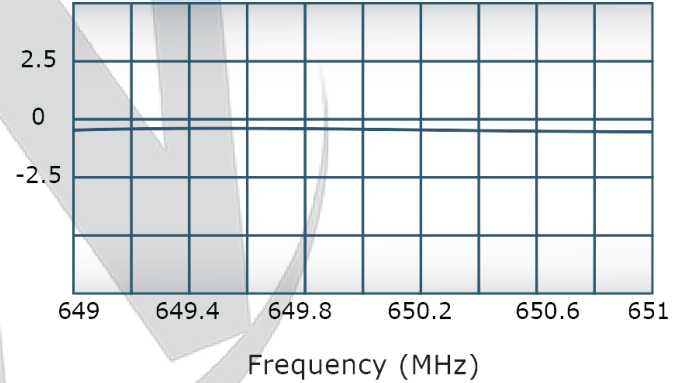
VSWR:



Since 1965:

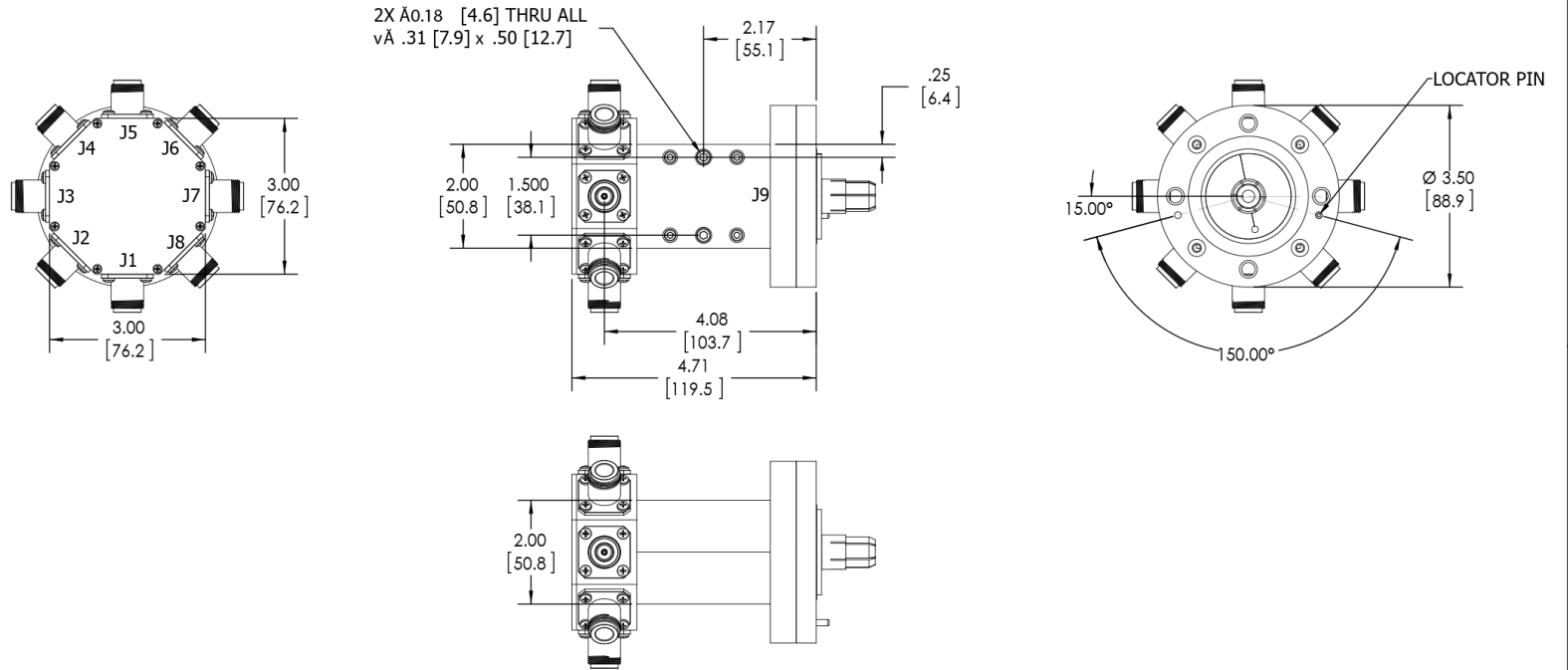


Phase Balance:



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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	
DIMENSIONS ARE IN INCHES (mm)		CHK	DATE	TITLE
DIMENSIONS ARE IN INCHES (mm)		CS	1/21/2014	
DIMENSIONAL UNITS APPLY BEFORE PROCESSES		ENGR	DATE	SIZE
TOLERANCES:		BW	DATE	CAGE CODE
ANGLES = 3°		MPFR	1/21/2014	DWG NO
3 RL ± .005 [13]		QA	DATE	REV
2 RL ± .015 [38]		RELE	DATE	A
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
CONCENTRICITY FRACTION DIA. .002 FIM				
MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON	SCALE	1:2	28812 21135-500
APPLICATION	THIRD ANGLE PROJECTION			SHEET 1 OF 1

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