

PRODUCT DATA SHEET
D9939

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 Isolation Custom Designs Available

Electrical Specifications:

Frequency: 1000 - 2500 MHz
Power: 200 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: $\pm 4^\circ$ Max.
Amplitude Balance: 0.3 dB Max.
Isolation: 8 dB Reflective

Mechanical Specifications:

Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F Type II Class 3 (Trivalent) RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Size: 4.75 x 2.3 x 1.1"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J9)
D9939-12	N Female	SMA Female

Electrical Specifications updated 23 March 2020.

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.

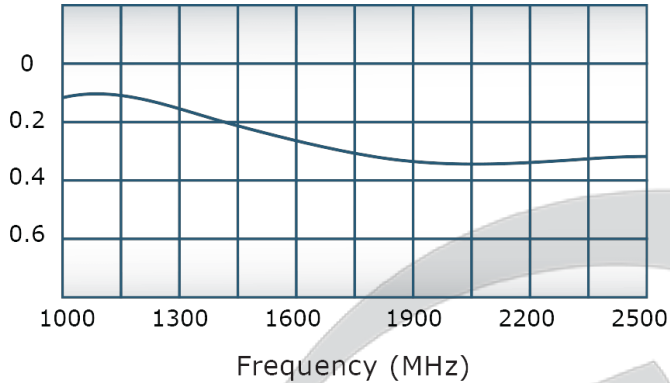


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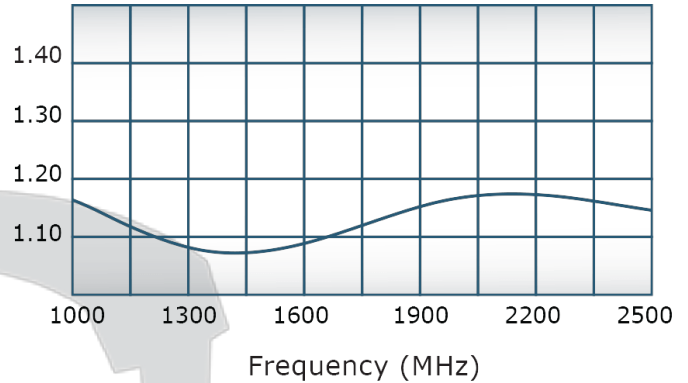
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Performance Data (Specifications subject to change without notice):

Insertion Loss:



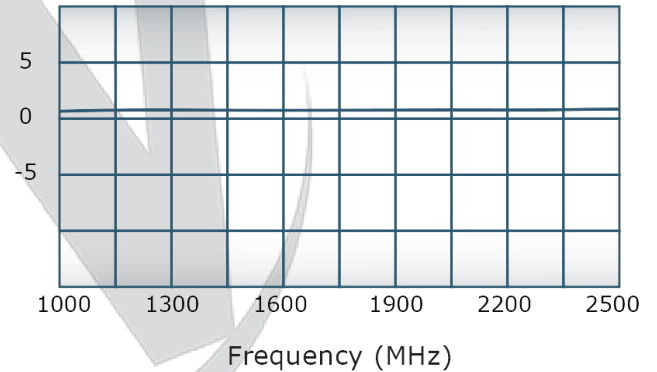
VSWR:



For In-Building Applications:



Phase Balance:

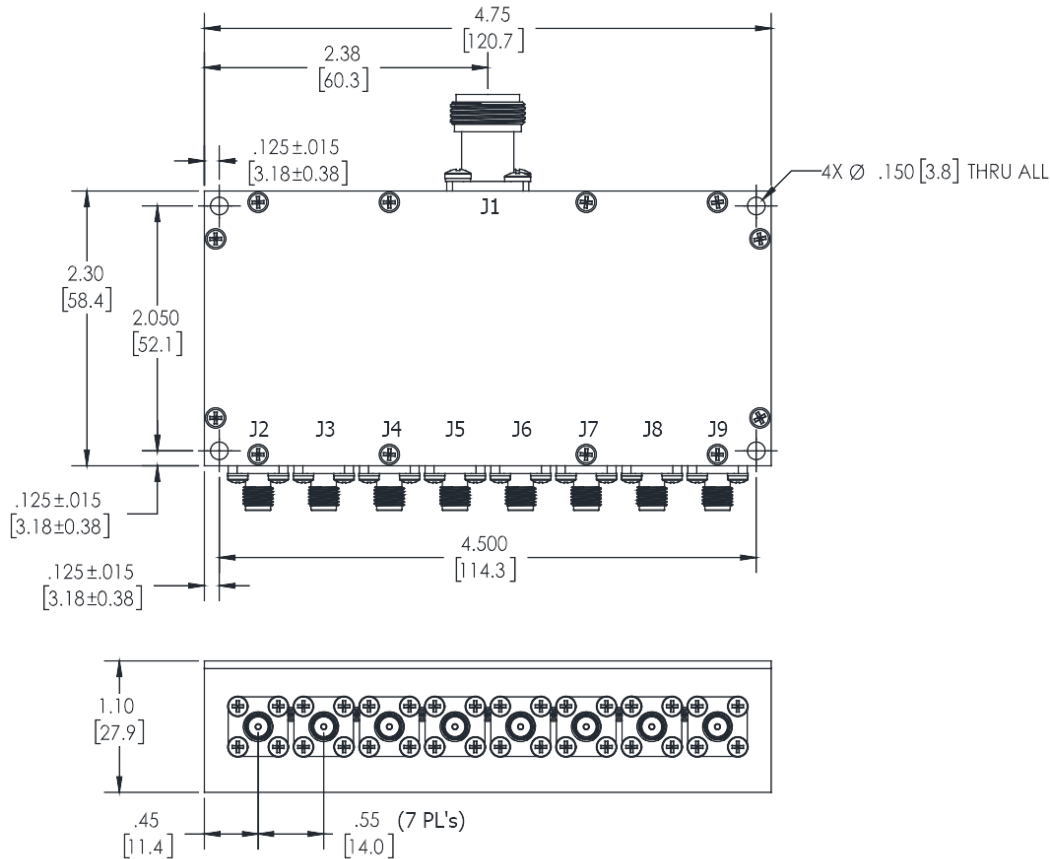


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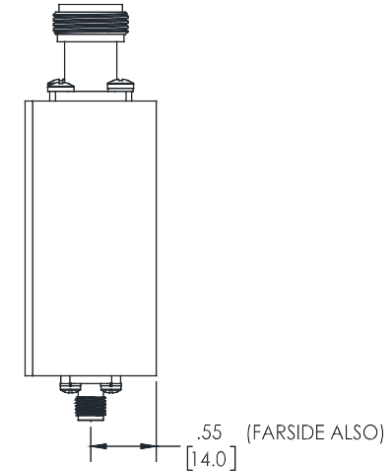


NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- SURFACE FINISH: CHEM FILM PER MIL-DTL-5541F TYPE II, CLASS 3 (TRIVALENT)**
- CONNECTORS: J1 : N FEMALE
J2-J9 : SMA FEMALE**

REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/27/2020	BW



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING UNLESS OTHERWISE SPECIFIED		GP	3/27/2020	WERLATONE SINCE 1965	
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE		
		• PRECEDENCE: DIMS FOR REF ONLY		CS	3/27/2020	D9939-12 8-WAY COMBINER/DIVIDER	
		• DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		GP	3/27/2020	SIZE CAGE CODE DWG NO	
		• TOLERANCES:		MPGR	DATE		
		ANGLES: ± 2°		QA	DATE	B 28812 21178-500	
		2 PL ± .015 (1.3)		DATE	3/27/2020		
		2 PL ± .015 (1.3)		DATE	3/27/2020	SCALE 1:1	
		• REMOVE ALL BURRS AND SHARP EDGES R.00 MAX		DATE	3/27/2020		
		• CONCENTRICITY FRACTURED DIA: .002 FIM		DATE	3/27/2020	SHEET 1 OF 1	
		• MACHINE TOOL PRECISION: .003 MAX		DATE	3/27/2020		
APPLICATION		THIRD ANGLE PROJECTION		DATE	3/27/2020		

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