

## PRODUCT DATA SHEET

D9811

**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: 800 - 2500 MHz  
Power: 1000 W CW  
Insertion Loss: 0.5 dB Max.  
VSWR: 1.35:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance: 0.25 dB Max.  
Isolation: 11 dB Min.

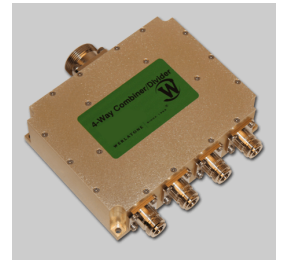
### Mechanical Specifications:

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: 2.625 lbs.  
Size: 5.5 x 4.25 x 1.6"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D9811-10	N Female	N Female
D9811-12	N Female	SMA
D9811-20	7/16 Female	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.

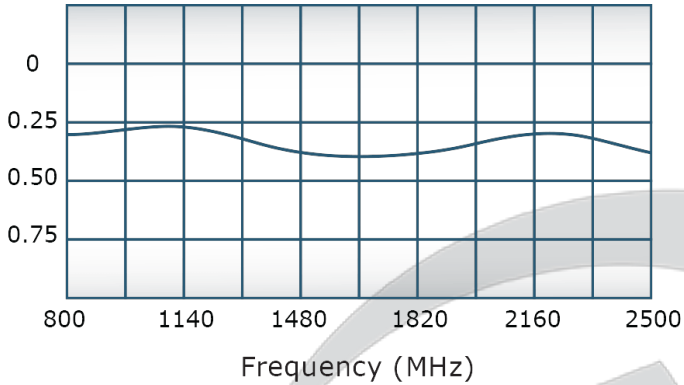


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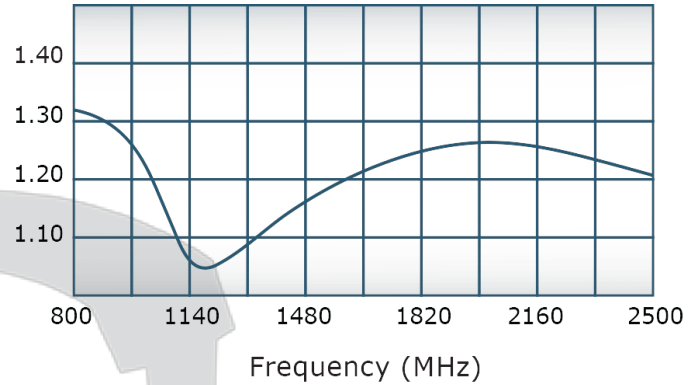
D9811

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

Coupling:



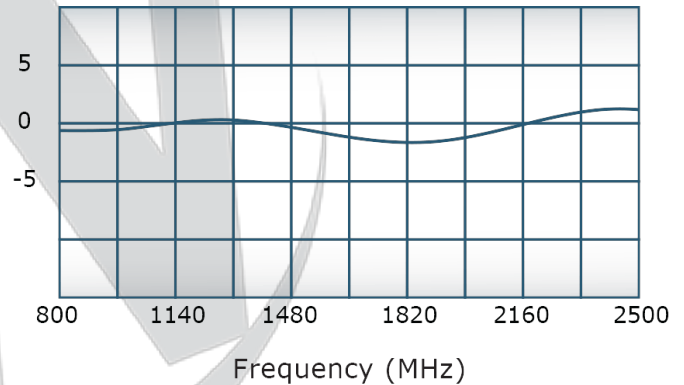
VSWR:



Since 1965:

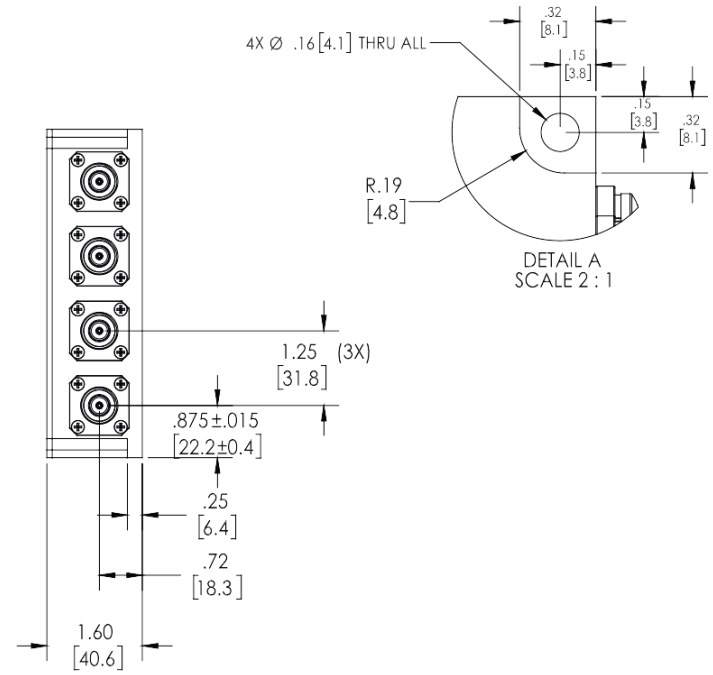
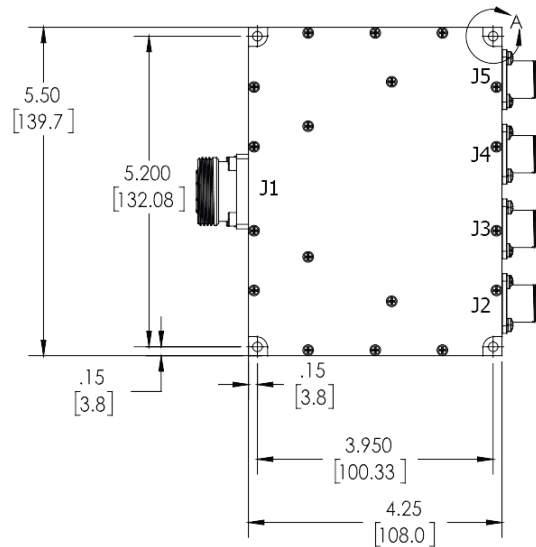
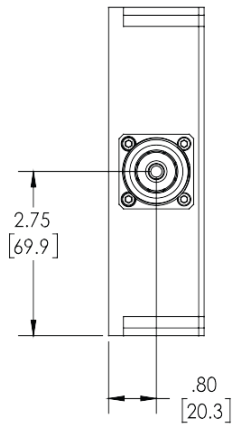


Phase Balance:



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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/1/2013	BW
A	ECN 8563	2/14/2014	BW
B	ECN 9844	10/3/2019	BW



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		GP	3/1/2013				
		• DIMENSIONING PER ASME Y14.3M-2009		CHK	DATE				
		• DIMENSIONAL UNITS ARE IN INCHES (IN) ONLY		CS	3/1/2013	TITLE			
		• DIMENSIONS ARE IN INCHES (IN)		ENGR	DATE				
		• DIMENSIONAL UNITS APPLY BEFORE PROCESSING		PRGR	DATE				
		• TOLERANCES:							
		ANGLES: ± 2°							
		2 PL. ± .005 (.13)				SIZE		CAGE CODE	DWG NO
		2 PL. ± .015 (.38)				B 28812		21008-500	REV
D9811-20				QA	DATE			B	
21008-300A	D9343-20			RLSE	DATE	SCALE		1:2	
NEXT ASSY	USED ON							SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION							

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