



## 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.



# WERLATONE

Model D9811

Combiners In-Phase Connectorized

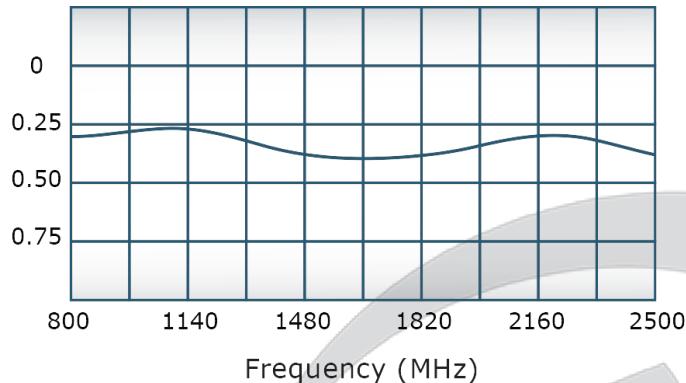


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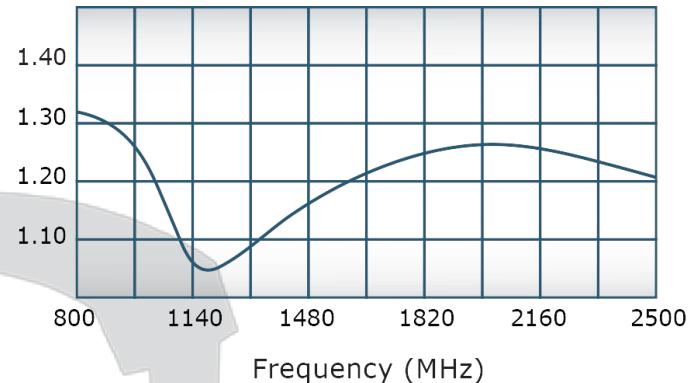
D9811

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

Coupling:



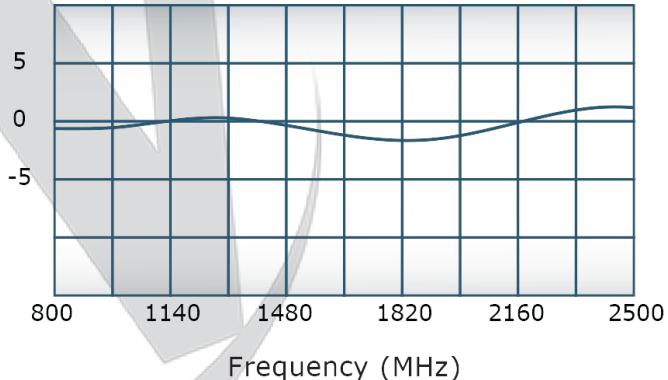
VSWR:



Since 1965:



Phase Balance:



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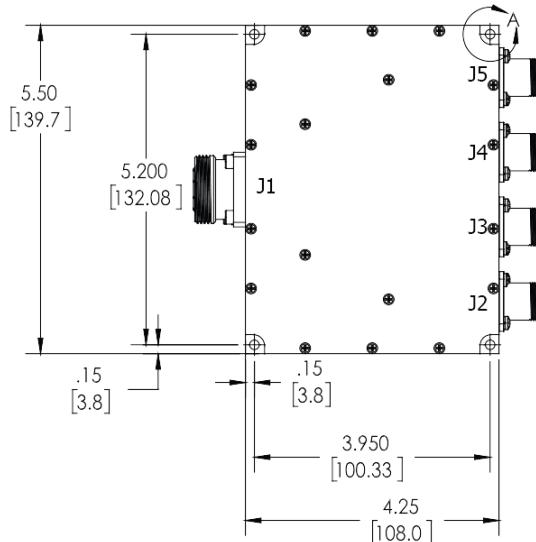
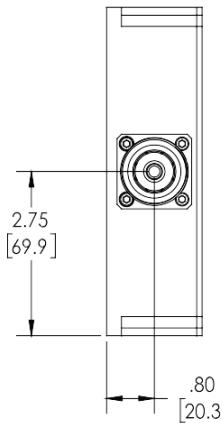
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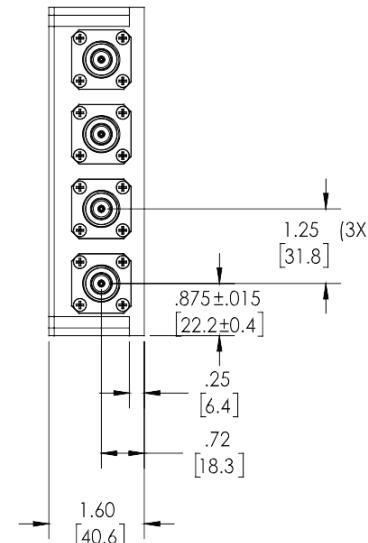
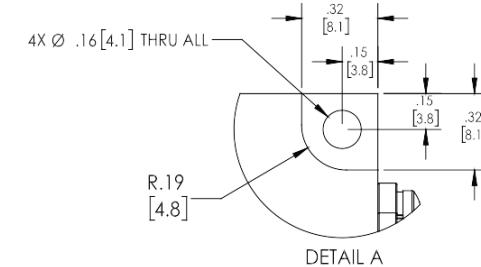
REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/1/2013	BW
A	ECN 8563	2/14/2014	BW
B	ECN 9844	10/3/2019	BW

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		UNLESS OTHERWISE SPECIFIED	DWN	DATE	W	WERLATONE SINCE 1965	17 Jon Barrett Rd
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	GP	3/1/2013			Patterson, NY 12563
		• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE			
		• DIMENSIONS ARE IN INCHES (IN)	CS	3/1/2013			
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	BRNR	DATE			
		• TOLERANCES	PFGR	DATE			
		• ANGLES ± 2° 3 PL ± .005 (.13) 2 PL ± .015 (.38)	QA	DATE			
			RUSE	DATE	SIZE	CAGE CODE	DWS NO
	D9811-20				B	28812	21008-500
21008-300A	D9343-20						
NEXT ASSY	USED ON	APPLICATION			REV		
		THIRD ANGLE PROJECTION				1:2	SHEET 1 OF 1

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