



## PRODUCT DATA SHEET

D8682

**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: 20 - 1000 MHz  
Power: 500 W CW  
Insertion Loss: 0.7 dB Max.  
VSWR: 1.35:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance:  $\pm 0.3$  dB Max.  
Isolation: 15 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 lbs.  
Size: 5.2 x 2.65 x 1.8"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D8682-10	N Female	N Female	N Female
D8682-12	N Female	SMA	SMA
D8682-13	N Female	BNC	BNC
D8682-41	SC Female	N 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.

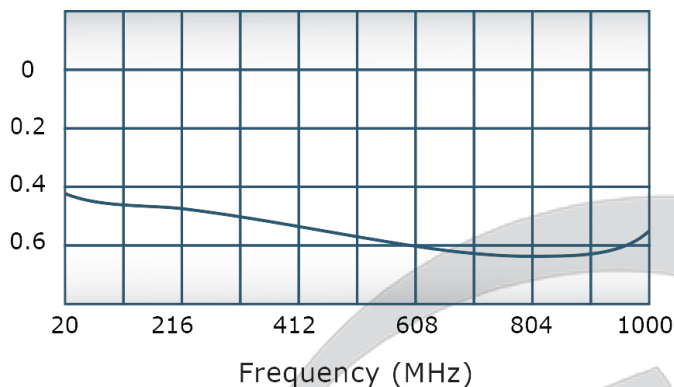


## PRODUCT DATA SHEET

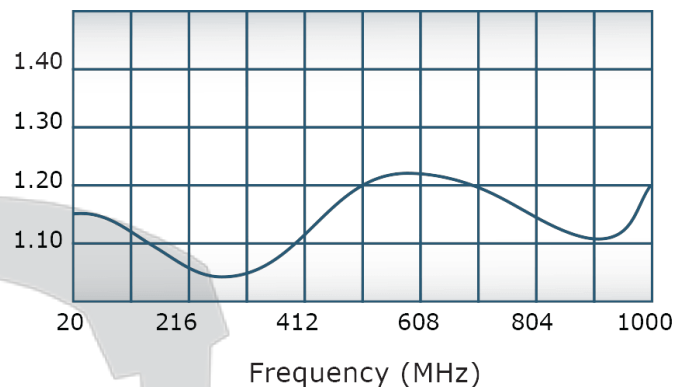
D8682

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

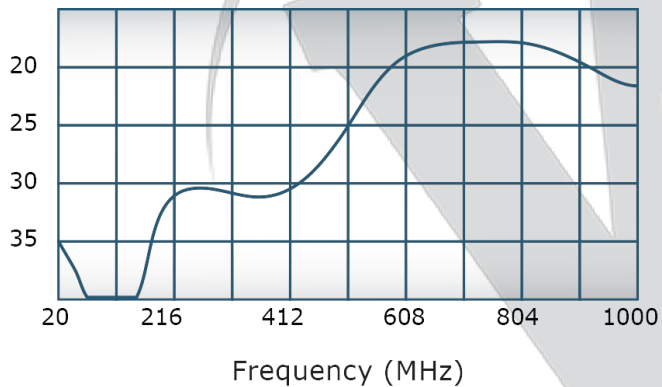
Insertion Loss:



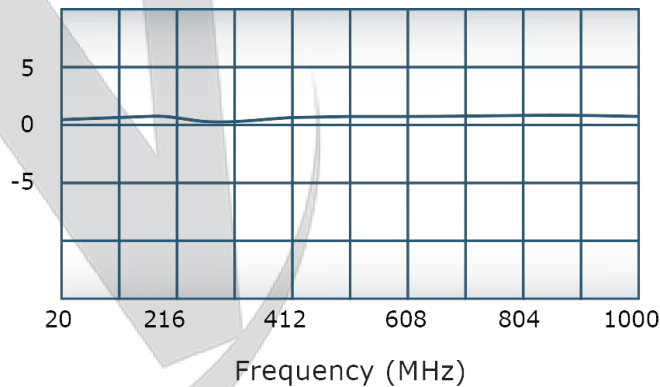
VSWR:



Isolation:

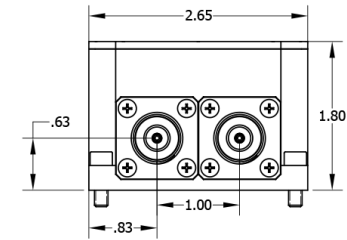
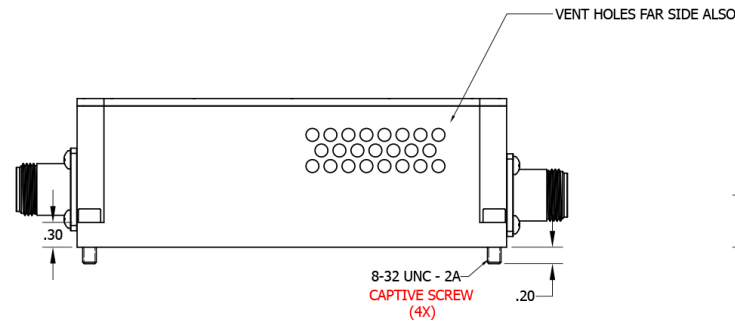
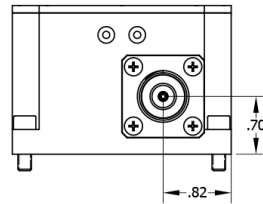
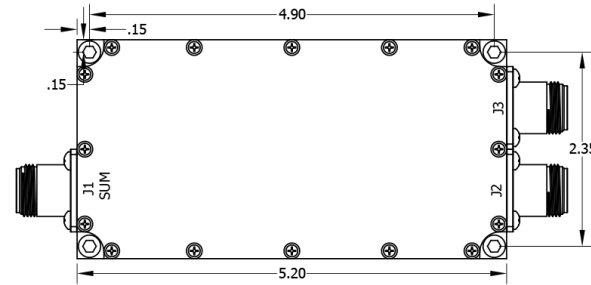



Phase Balance:



RESTRICTION ON USE, DUPLICATION OR  
DISCLOSURE OF PROPRIETARY INFORMATION  
This document contains proprietary information  
which is the sole property of Werlatone, Inc.

REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



UNLESS OTHERWISE SPECIFIED		DWN	DATE	 <b>WERLATONE   SINCE 1965</b>		2095 Route 22 Brewster, NY 10509	
* INTERPRET DRAWING IAW MIL-STD-100 * DIMENSIONING PER: ASME Y14.5M-2009 * PARENTHEetical INFO FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		PR	7/8/2010				
* TOLERANCES: ANGLES    ± 2° .XXX    ± .005 .XX    ± .015		CHK	DATE	<b>TITLE</b> OUTLINE		USED ON	
		CS	7/8/2010				
		ENGR	DATE				
		MFGR	DATE				
		QA	DATE				
		RLSE	DATE				
		SIZE		CAGE CODE		DWG NO	
		A		28812		20663-500	
		SCALE					
						SHEET 1 OF 1	

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com