



## PRODUCT DATA SHEET

**D10856**

**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      Partial Isolation      Custom Designs Available

### Electrical Specifications:

Frequency: 80 - 1000 MHz  
Power: 750 W CW  
Insertion Loss: 0.6 dB Max.  
VSWR: 1.35:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance: 0.3 dB Max.  
Isolation: Partially Isolated

### Mechanical Specifications:

Type: Connectorized  
Material: Aluminum 6061-T6  
Surface Finish: Chem. Film Per MIL-DTL-5541F Type II Class 3 (Clear Iridite) RoHS Compliant Available  
Operating Temperature: -55°C to +75°C  
Storage Temperature: -60°C to +85°C  
Weight: 2 lbs. 10 oz.  
Size: 5.0 x 4.7 x 1.4"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D10856-10	N Female	N Female
D10856-12	N Female	SMA

**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 D10856

Combiners In-Phase Connectorized

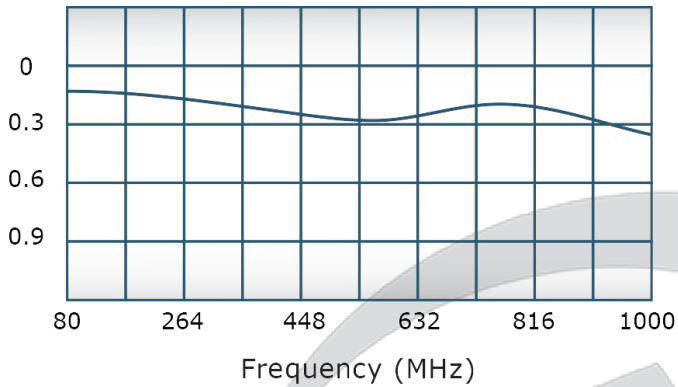


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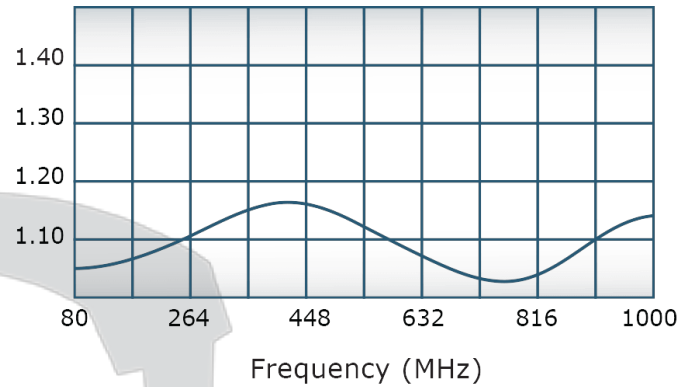
D10856

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

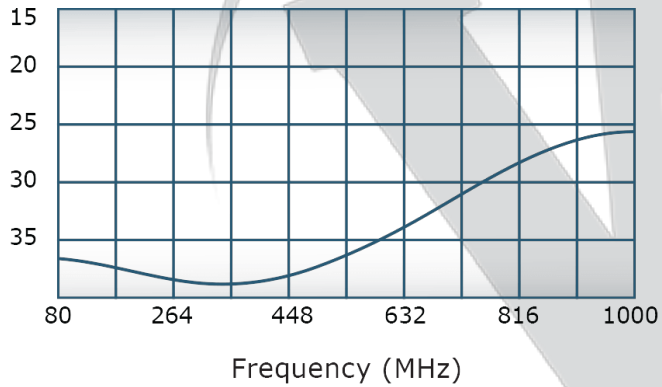
Insertion Loss:



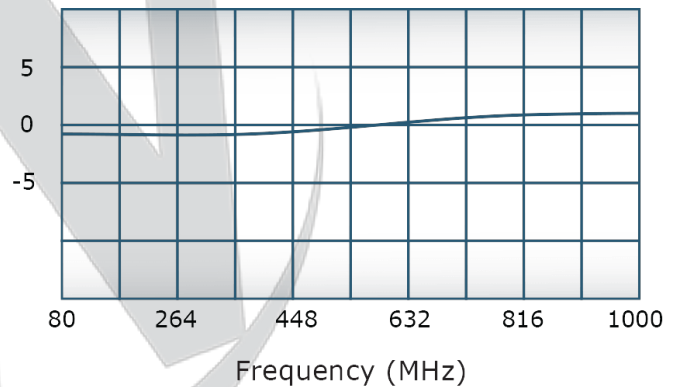
VSWR:



Isolation:



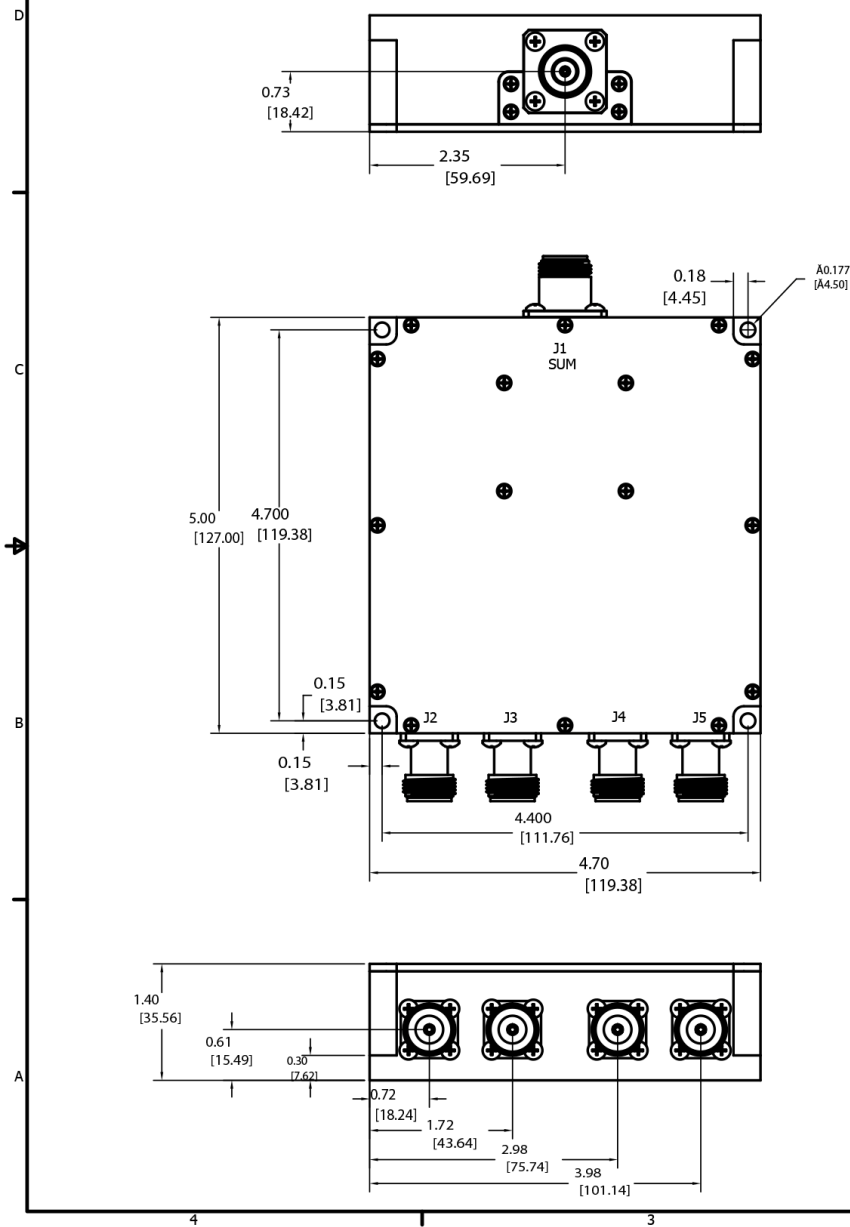
Phase Balance:





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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
6/6/13	B	8215	PR		



UNLESS OTHERWISE SPECIFIED		DWN	DATE	7/28/12	 <b>WERLATONE SINCE 1965</b>		17 Jon Barrett Rd Patterson, NY 12563	
* INTERPRET DRAWING IAW MIL-STD-100 * DIMENSIONING PER ASME Y14.5-2009 * PARENTHETICAL INFO FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		CHK	DATE	7/28/12	TITLE		OUTLINE	
* TOLERANCES: ANGLES        ± 2° XXX           ± .005 XX            ± .015		ENGR	DATE		USED ON			
* HOLE TOLERANCES +.004/-.001 * REMOVE ALL BURRS AND SHARP EDGES .01 R MAX * CONCENTRICITY MACHINED DIA: .002 FIM * MACHINE TOOL MISMATCH .003 MAX		MFR	DATE		SIZE	CAGE CODE	DWG NO	REV
		QA	DATE		28812		20768-500	
THIRD ANGLE PROJECTION 		RLSE	DATE		SCALE	1:1	SHEET 1 OF 1	

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