

## PRODUCT DATA SHEET

D5839

**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: 30 - 88 MHz  
 Power: 100 W CW  
 Insertion Loss: 0.35 dB Max.  
 VSWR: 1.35:1 Max.  
 Phase Balance:  $\pm 5^\circ$  Max.  
 Amplitude Balance: 0.2 dB Max.  
 Isolation: 35 dB Min.

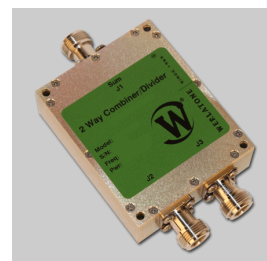
### Mechanical Specifications:

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: 13 oz.  
 Size: 3.3 x 2.65 x 1.0"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D5839-10	N Female	N Female	N Female
D5839-12	N Female	SMA	SMA
D5839-18	N Female	TNC	TNC
D5839-18SS	Stainless Steel N Female	Stainless Steel TNC	Stainless Steel TNC
D5839-300	TNC	TNC	TNC

**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.

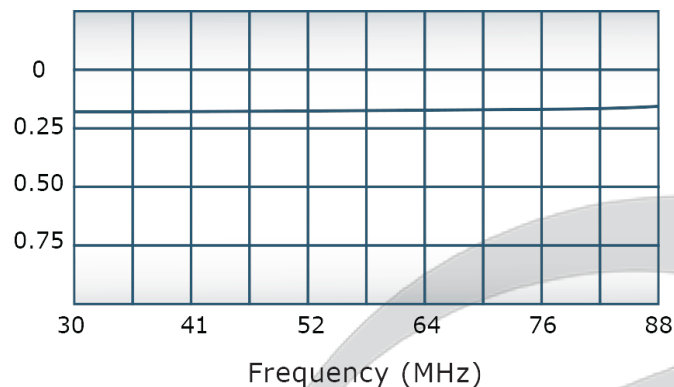


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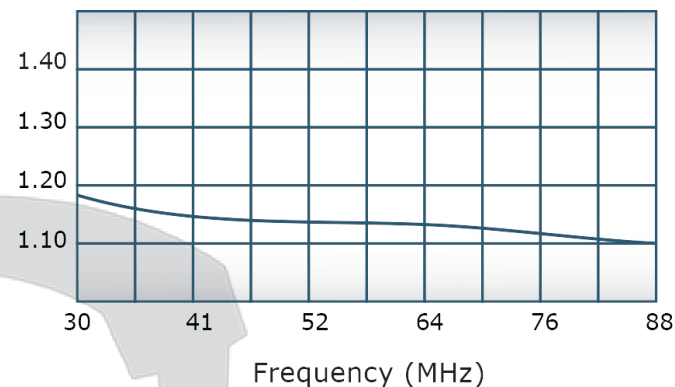
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### Performance Data (Specifications subject to change without notice):

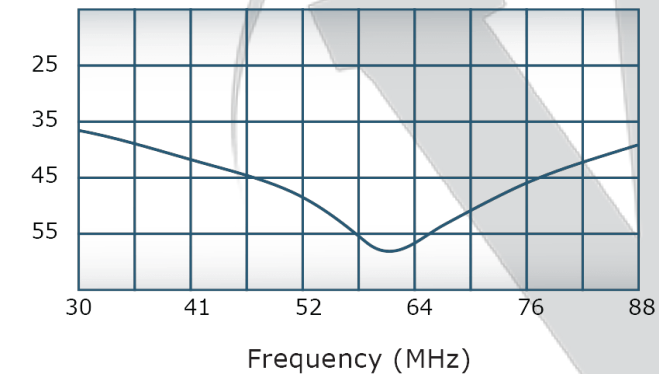
Insertion Loss:



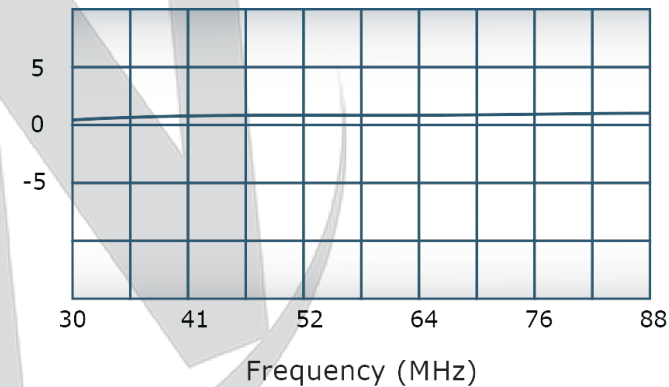
VSWR:



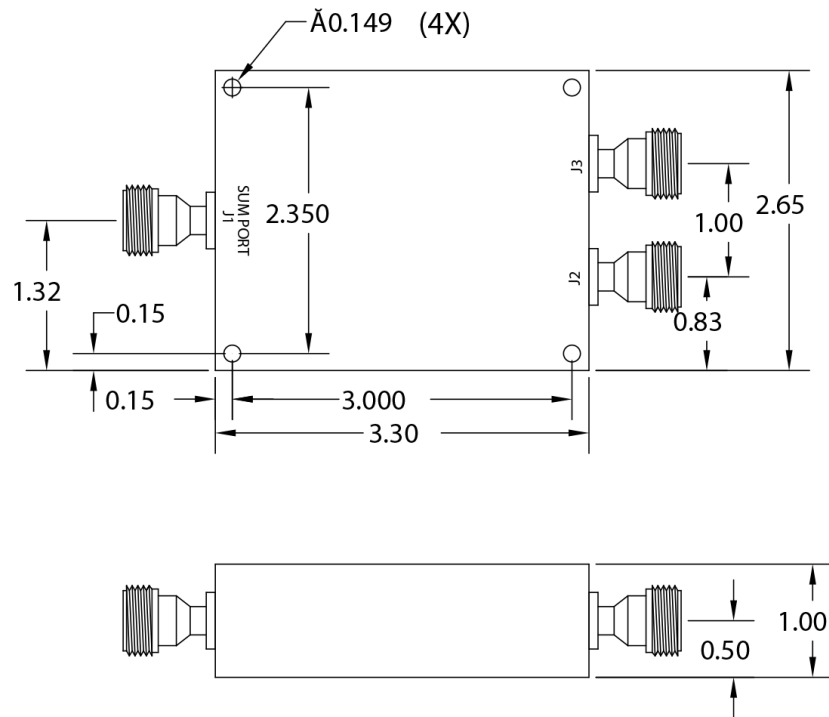
Isolation:



Phase Balance:



DATE	SYM	REVISION RECORD	AUTH	DR	CK



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TOLERANCE	WERLATONE INC.			
XX +/- .015 XXX +/- .005	SCALE		DRAWN BY: CS	APPVD BY: BW
	TITLE <b>OUTLINE</b>			
	DATE 5/13/03	DRAWING NUMBER 10913-500		

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