
**PRODUCT DATA SHEET**
**H8837W**

**Werlatone®** High Power 180° RF Hybrid Combiners/Dividers balance traditional technologies with disruptive microwave techniques. The outcome is a microwave component which provides an order of magnitude improvement over current capabilities. Our newest line of high power, patented 180° RF Hybrid Combiners/Dividers provides an incredible 5:1 bandwidth, while exhibiting exceptionally low loss and superior port-to-port isolation.

**Features:**

High Power      Wide Bandwidths      Small Size      Excellent Amplitude Balance

**Electrical Specifications:**

Frequency:            20 - 512 MHz  
 Power:                100 W CW  
 Insertion Loss:      0.6 dB Max.  
 VSWR:                1.40:1 Max.  
 Phase Balance:      180° ± 5° Max.  
 Amplitude Balance: ± 0.4 dB Max.  
 Isolation:            20 dB Min.

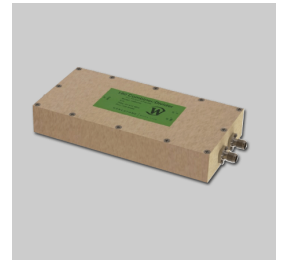
**Mechanical Specifications:**

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:                0.75 lbs.  
 Size:                    4.7 x 2.3 x 0.8"  
 Watertight Model:    O-Ring Sealed Case and Connectors

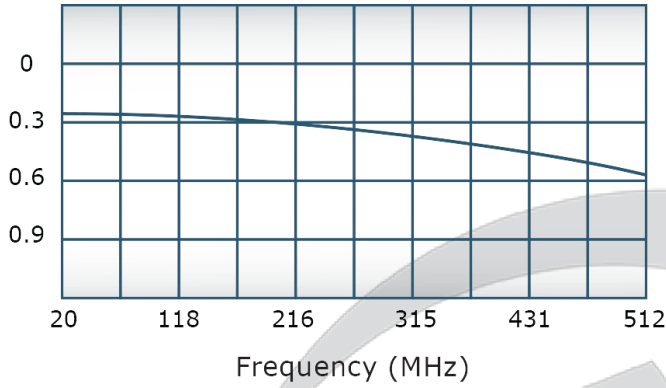
**Connector Configurations:**

<b>Model</b>	<b>Sum Port (J4)</b>	<b>Inputs (J2,J3)</b>
H8837W-102	SMA	SMA

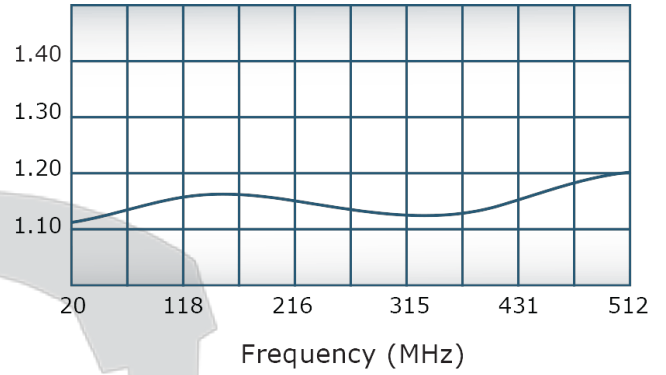
**Werlatone's** standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference ports is minimal, allowing the hybrid to handle high power over its frequency range. Custom requirements are welcome.


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

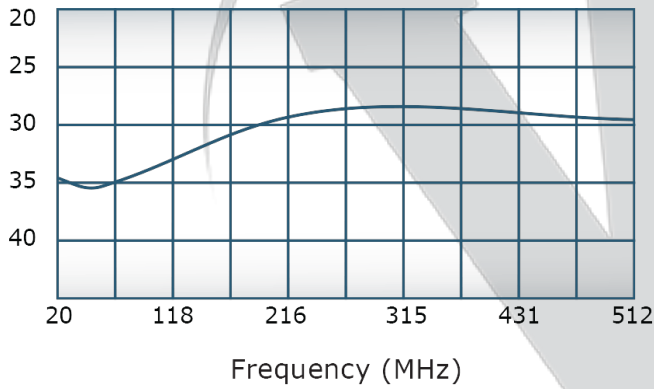
Insertion Loss:



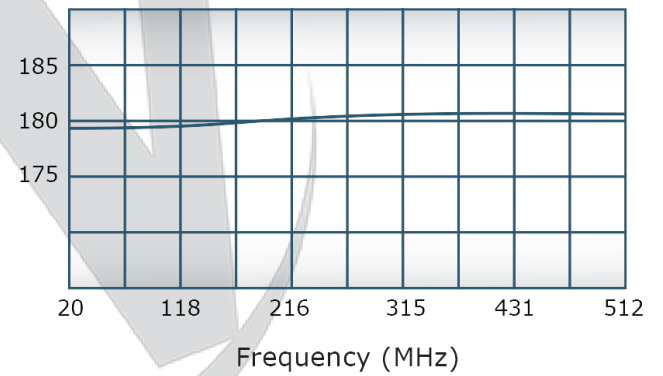
VSWR:



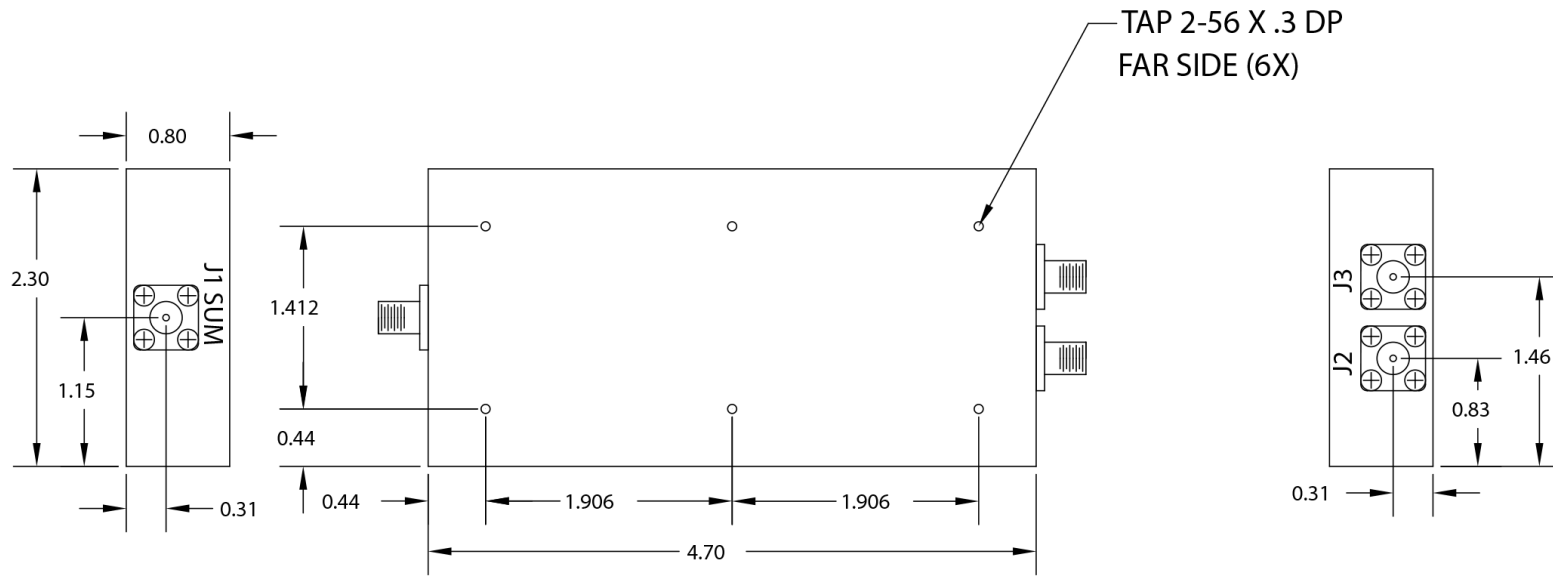
Isolation:



Phase Balance:



DATE	SYM	REVISION RECORD	AUTH	DR	CK



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XX +/- .015 XXX +/- .005	USED ON:	SCALE	DRAWN BY: CS APPVD BY: BW
X	TITLE <b>OUTLINE</b>		
	DATE 7/6/05	DRAWING NUMBER 20183-500	

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