



## PRODUCT DATA SHEET

H7498

**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: 200 - 1000 MHz  
 Power: 750 W CW  
 Insertion Loss: 0.3 dB Max.  
 VSWR: 1.30:1 Max.  
 Phase Balance:  $180^\circ \pm 5^\circ$  Max.  
 Amplitude Balance:  $\pm 0.35$  dB Max.  
 Isolation: 20 dB Min.

### Connector Configurations:

Model	Sum Port (J1)	Diff Port (J2)	Inputs (J3,J4)
H7498-10	N Female	N Female	N Female
H7498-20	7/16 Female	N Female	N Female
H7498-28	7/16 Female	7/16 Female	7/16 Female

### 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:	4.25 lbs.
Size:	8.5 x 5.0 x 1.5"

**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.

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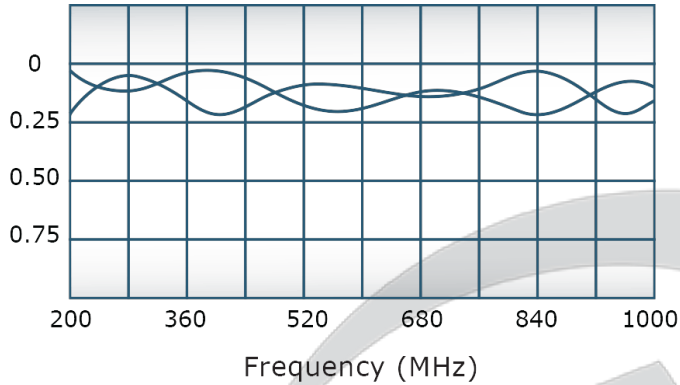


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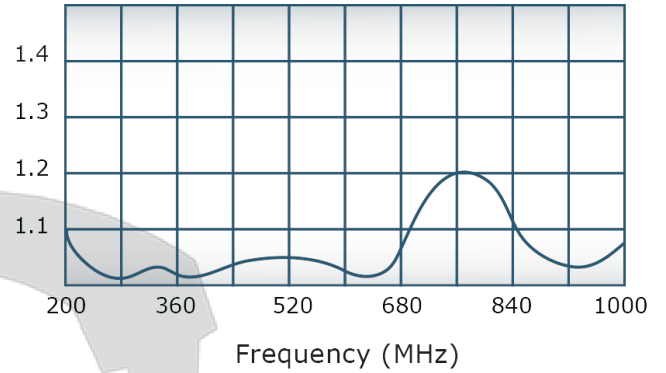
H7498

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

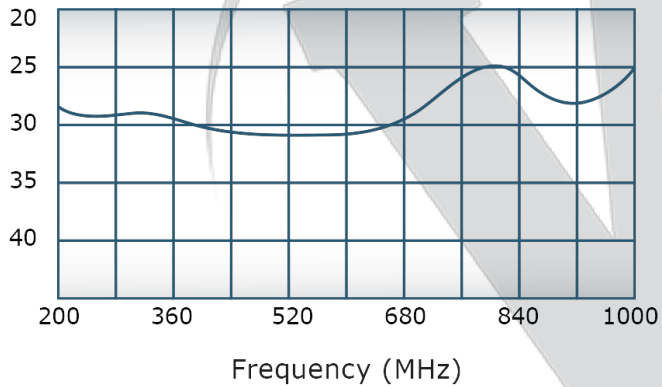
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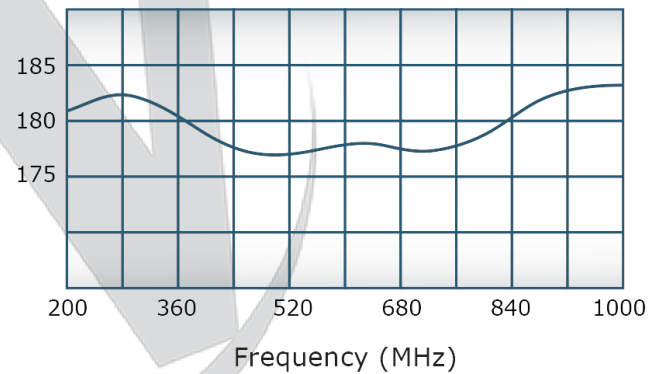
VSWR:



Isolation:



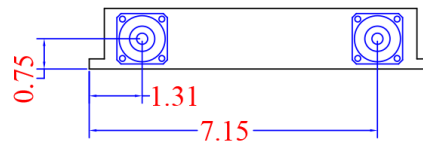
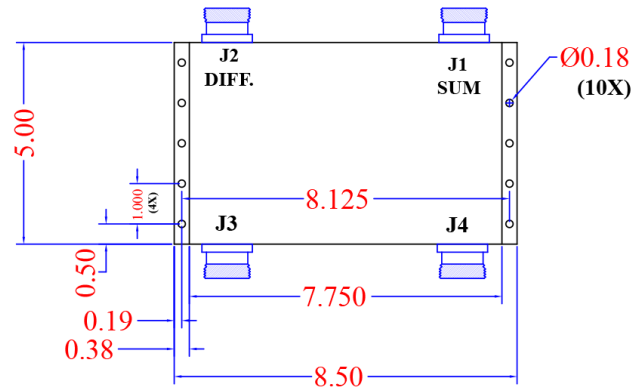
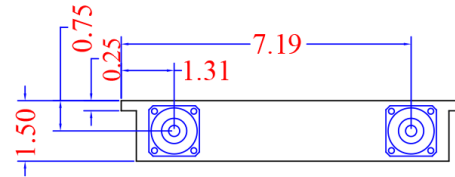
Phase Balance:



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