



## 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° ± 5° Max.  
Amplitude Balance:      ± 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.

**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

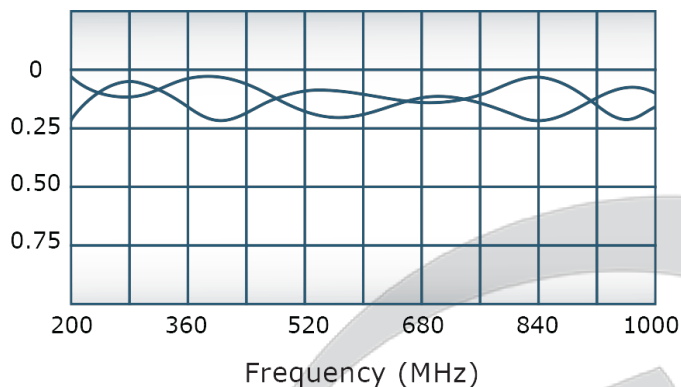


## PRODUCT DATA SHEET

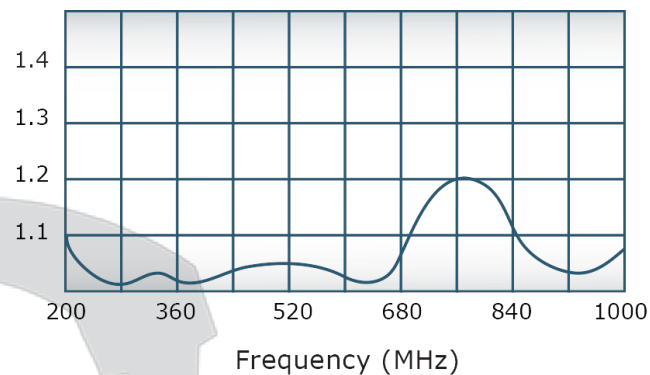
H7498

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

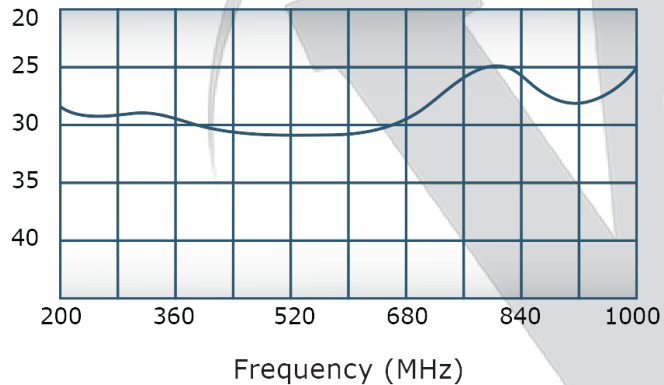
Insertion Loss:



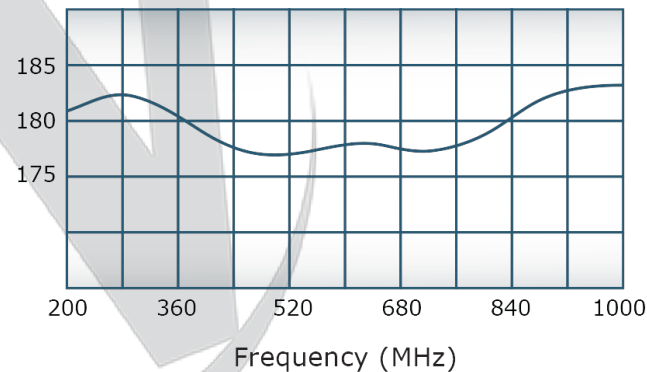
VSWR:



Isolation:



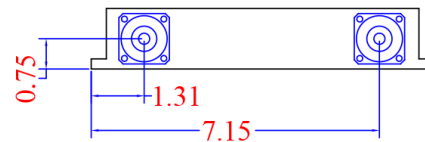
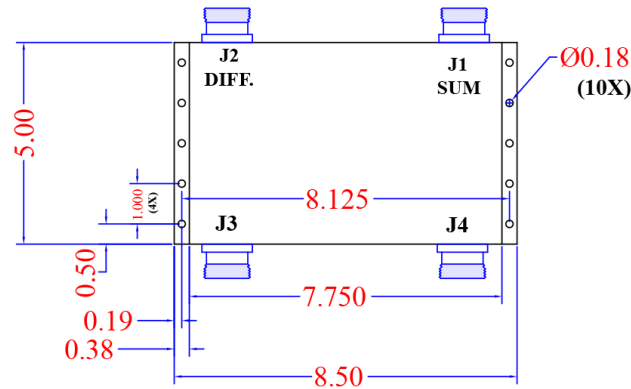
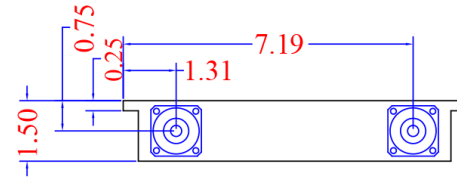
Phase Balance:



**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

DATE	SYM	REVISION RECORD	AUTH	DR	CK



THIS DRAWING CONTAINS INFORMATION  
PROPRIETARY TO WERLATONE INC. AND  
MAY NOT BE USED OR COPIED WITHOUT  
THE WRITTEN CONSENT OF WERLATONE INC.

TOLERANCE	WERLATONE INC.		
XX +/- .015 XXX +/- .005	USED ON:	SCALE	DRAWN BY: NH
			APPVD BY:
	TITLE <b>OUTLINE</b>		
	DATE 02/16/05	DRAWING NUMBER <b>20152-500</b>	

**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