
**PRODUCT DATA SHEET**
**H10298**

**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:                      2000 - 6000 MHz  
 Power:                              100 W CW  
 Insertion Loss:                1.0 dB Max.  
 VSWR:                              1.40:1 Max.  
 Phase Balance:                180° ± 7° 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 II  
     Class 3 (RoHS/Trivalent)  
 Operating Temperature:    -55°C to +75°C  
 Storage Temperature:      -60°C to +85°C  
 Size:                                 2.4 x 1.5 x 0.75"

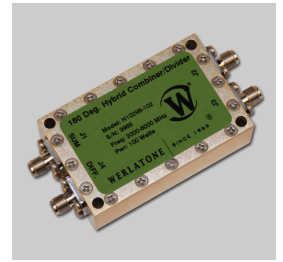
**Connector Configurations:**

Model	Sum Port (J4)	Inputs (J2,J3)	Diff. Port (J1)
H10298-102	SMA	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.

**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

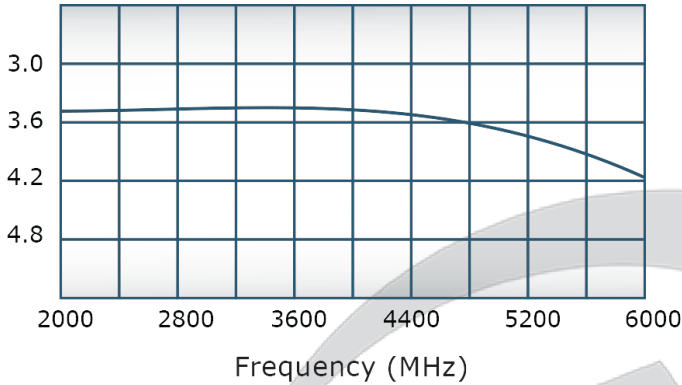


PRODUCT DATA SHEET

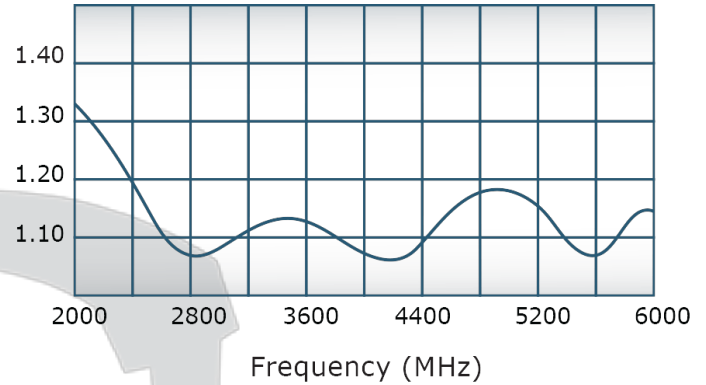
H10298

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

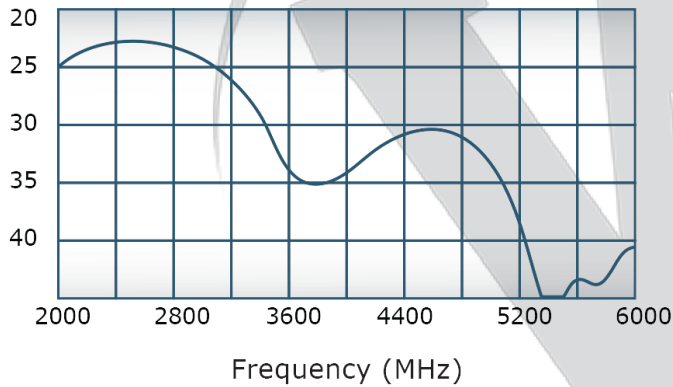
Coupling:



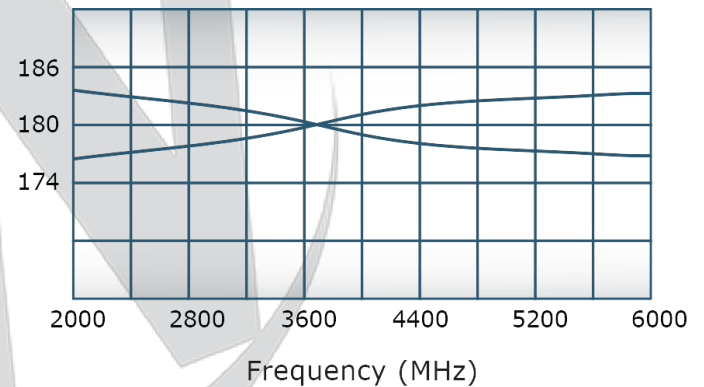
VSWR:



Isolation:



Phase Balance:



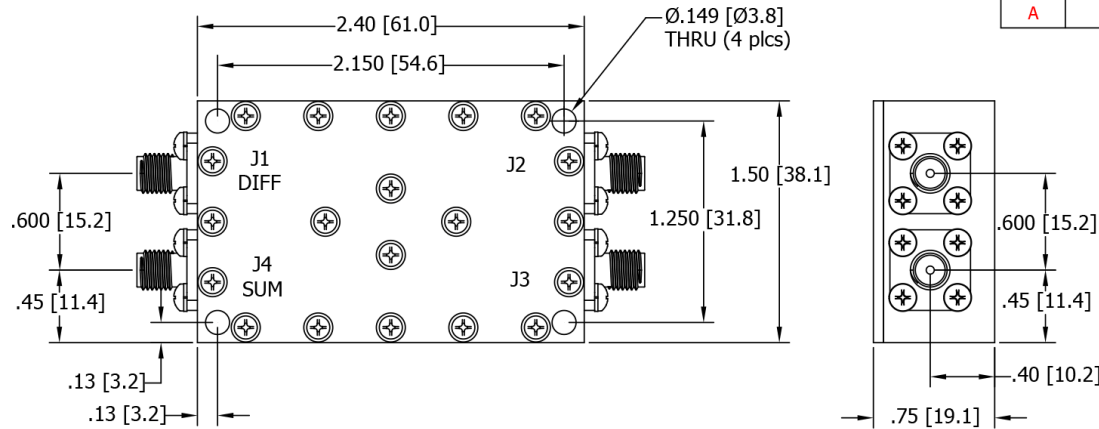
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
 This document contains proprietary information which is the sole property of Werlatone, Inc.

REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	2/24/2015	BW
A	ECN # 9031	2/9/2016	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
<ul style="list-style-type: none"> <li>• INTERPRET DRAWING LAW MIL-STD-100</li> <li>• DIMENSIONING PER ASME Y14.5M-2009</li> <li>• PARENTHESES INFO FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> <li>• TOLERANCES: ANGLES ± 2- 3 PL ± .005 2 PL ± .015</li> </ul>		NH	02/24/15		
		CHK	DATE	TITLE	
		BW	02/24/15	Outline	
		ENGR	DATE	SIZE	CAGE CODE
		BW	02/24/15	A	28812
		MFGR	DATE	DWG NO	REV
		QA	DATE	21300-500	A
		RLSE	DATE	SCALE	SHEET 1 OF 1
				1:1	

21300-300	H10298
APPLICATION	

**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