


**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:  $180^\circ \pm 7^\circ$  Max.  
Amplitude Balance:  $\pm 0.4$  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.

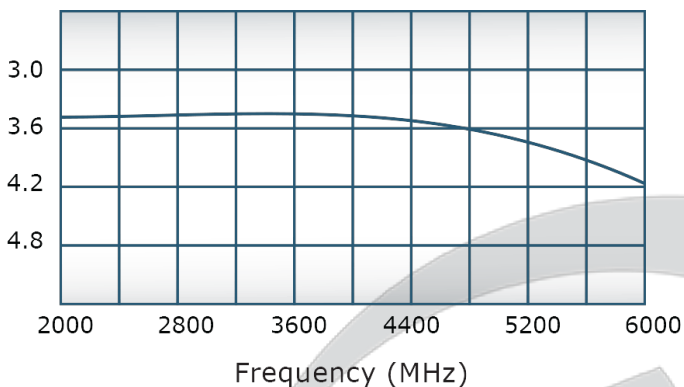


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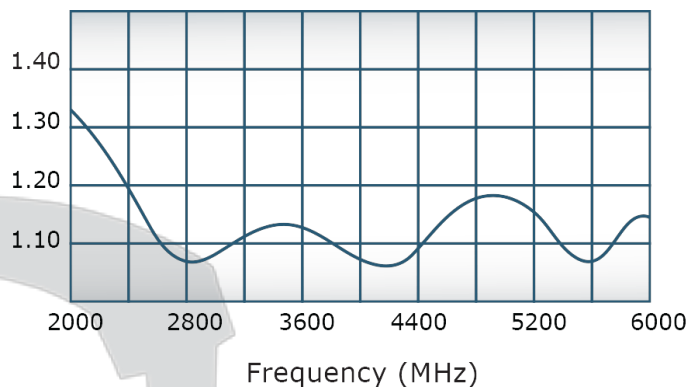
H10298

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

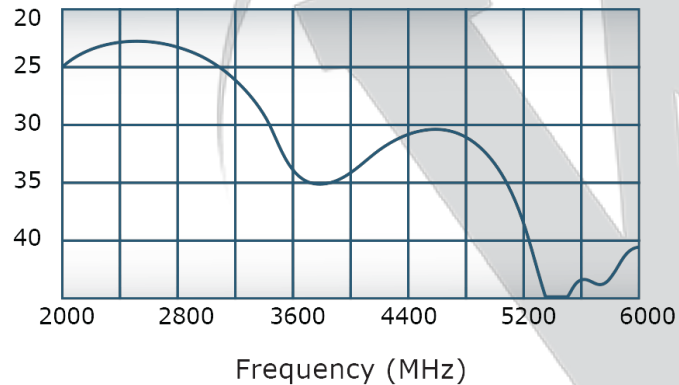
Coupling:



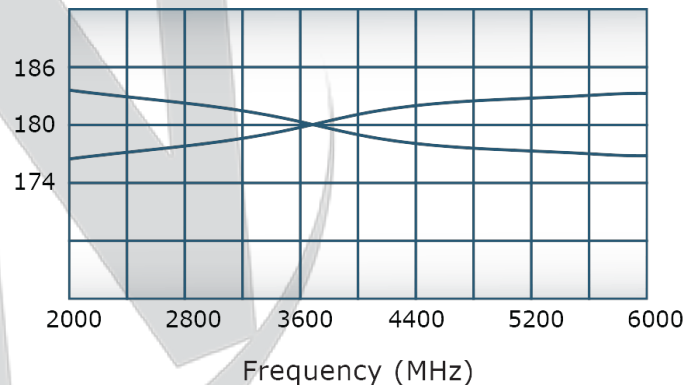
VSWR:



Isolation:



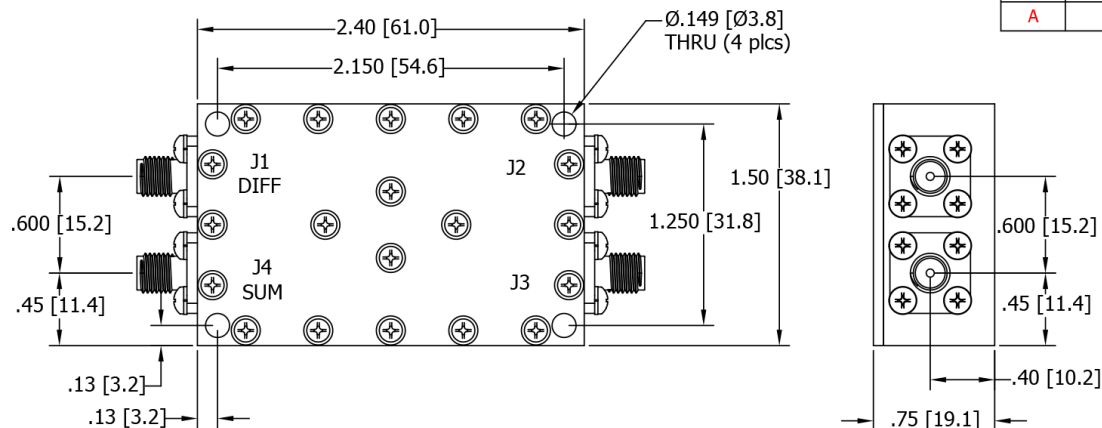
Phase Balance:



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

		<div>UNLESS OTHERWISE SPECIFIED</div> <div><div><div>• INTERPRET DRAWING IAW MIL-STD-100</div><div>• DIMENSIONING PER ASME Y14.5M-2009</div><div>• PARENTHESES INFO FOR REF ONLY</div><div>• DIMENSIONS ARE IN INCHES</div><div>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div></div><div><div>• TOLERANCES: ANGLES ± 2- 3 PL ± .005</div><div>2 PL ± .015</div></div></div>	DWN	DATE	<div><div>W</div><div>WERLATONE   SINCE 1965</div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>				
			CHK	DATE					
			BW	DATE					
			ENGR	DATE					
			BW	DATE					
			MFGR	DATE					
		QA	DATE		SIZE	CAGE CODE	DWG NO		
21300-300	H10298			RLSE	DATE	A	28812	21300-500	
APPLICATION			THIRD ANGLE PROJECTION			SCALE	1:1		SHEET 1 OF 1

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