



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: ± 0.4 dB Max.
 Isolation: 20 dB Min.

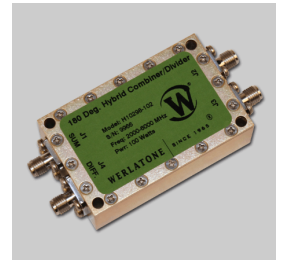
Mechanical Specifications:

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.

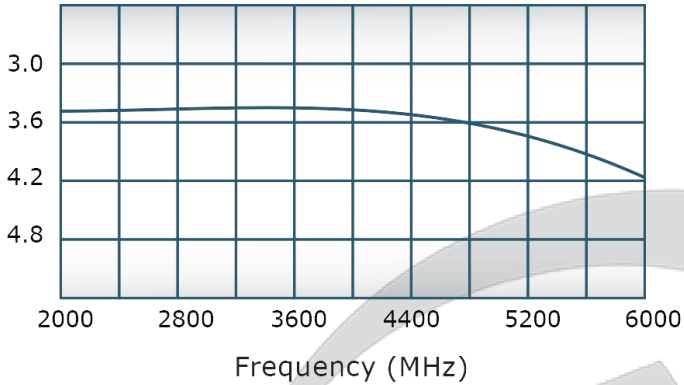


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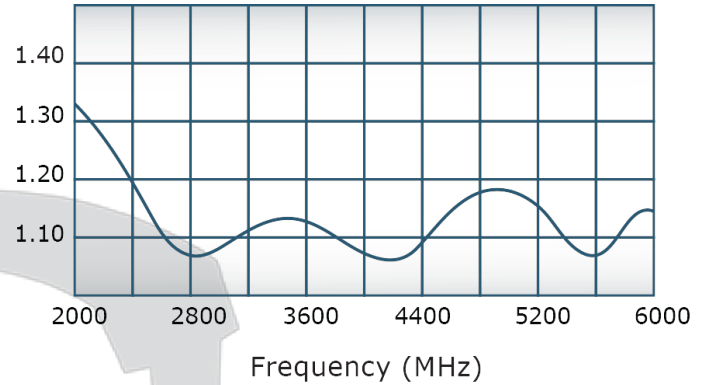
H10298

Performance Data (Specifications subject to change without notice):

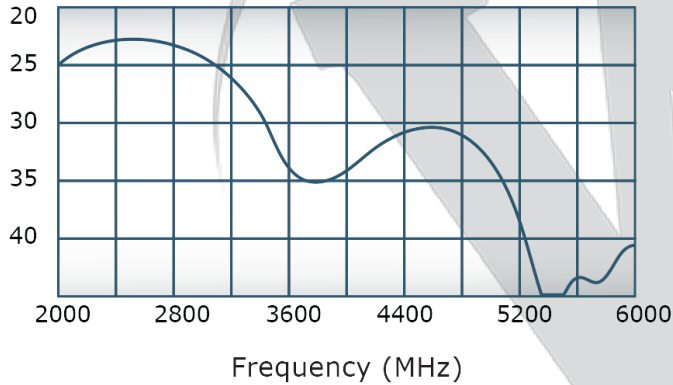
Coupling:



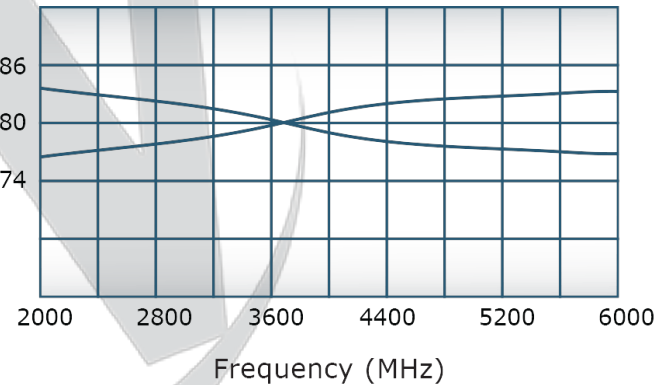
VSWR:



Isolation:



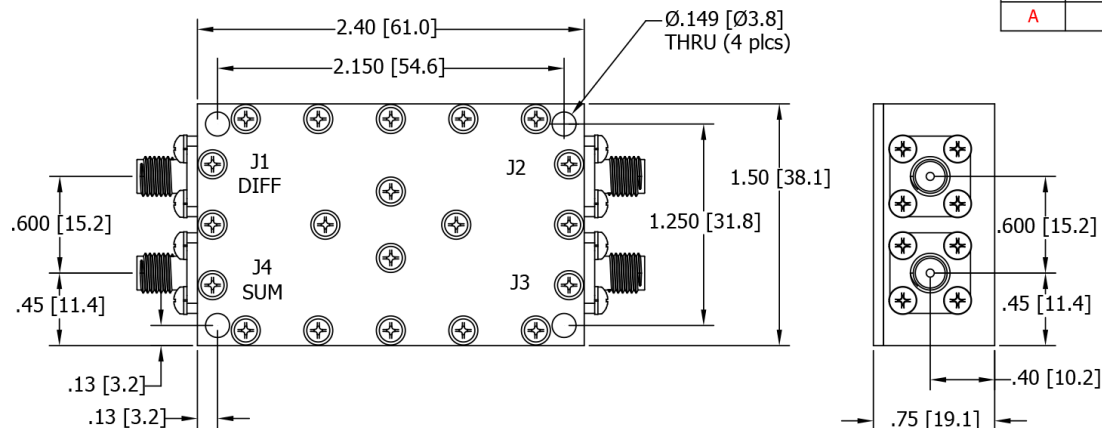
Phase Balance:



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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>• 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>• TOLERANCES: ANGLES ± 2- 3 PL ± .005 2 PL ± .015</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	02/24/15	TITLE		
			ENGR	DATE	Outline		
			BW	02/24/15			
			MFGR	DATE	SIZE	CAGE CODE	DWG NO
21300-300	H10298		QA	DATE	A	28812	21300-500
APPLICATION		RLSE	DATE	SCALE	SHEET 1 OF 1		
				1:1			

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