



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.

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

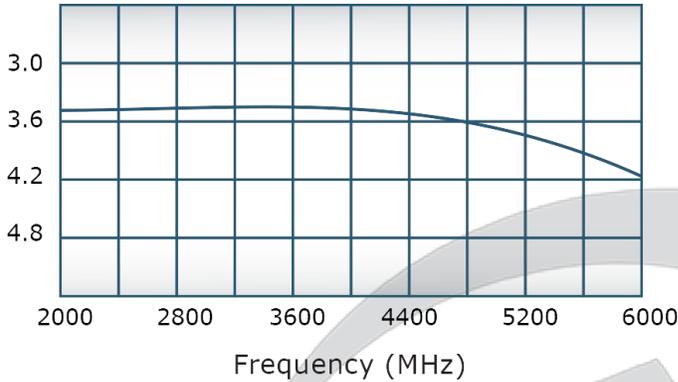


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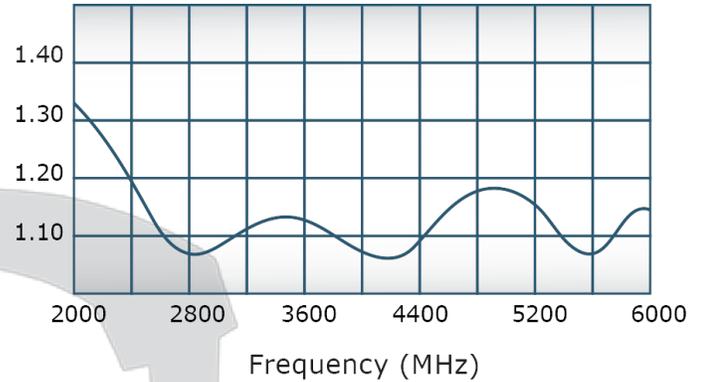
H10298

Performance Data (Specifications subject to change without notice):

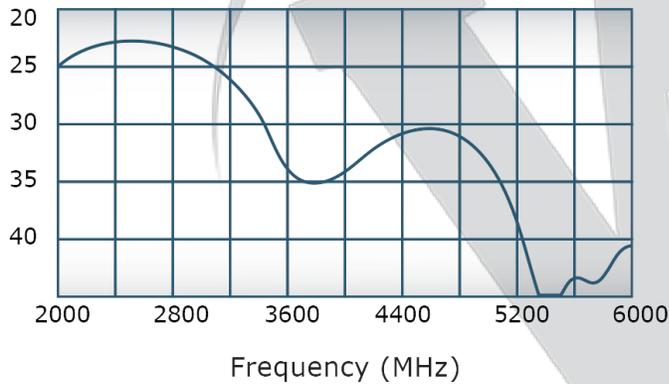
Coupling:



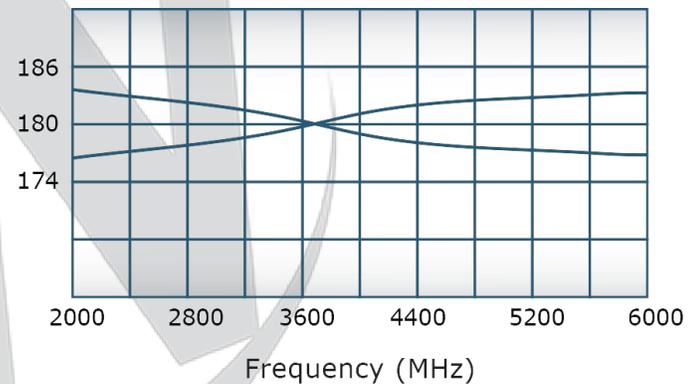
VSWR:



Isolation:



Phase Balance:



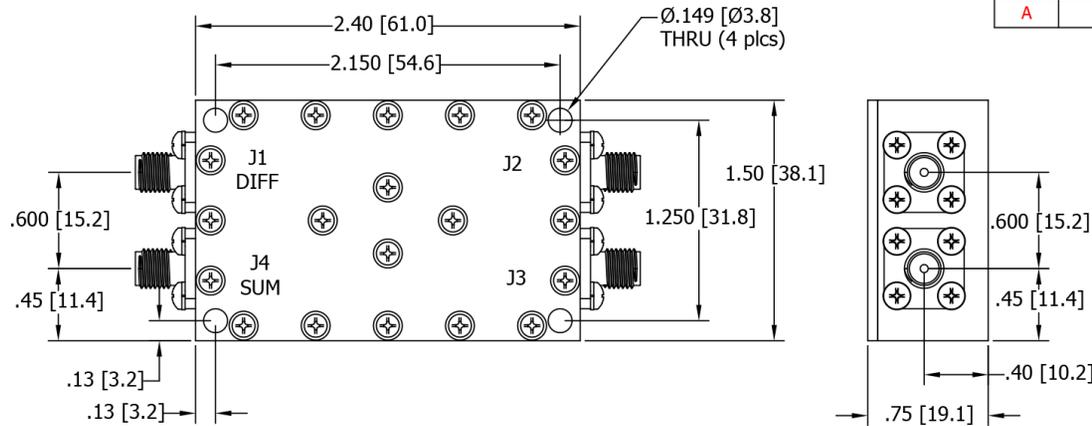
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	2/24/2015	BW
A	ECN # 9031	2/9/2016	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
<ul style="list-style-type: none"> • INTERPRET DRAWING LAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2- 3 PL ± .005 2 PL ± .015 		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	

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