


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° \pm 7° 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:

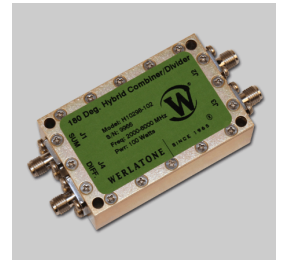
Model	Sum Port (J4)	Inputs (J2,J3)	Diff. Port (J1)
H10298-102	SMA	SMA	SMA

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.



WERLATONE

Model H10298

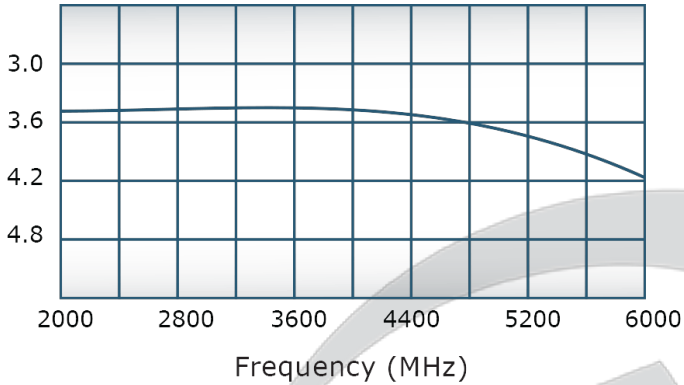


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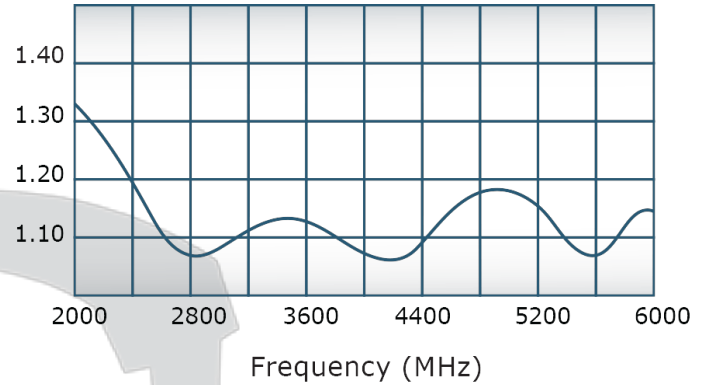
H10298

Performance Data (Specifications subject to change without notice):

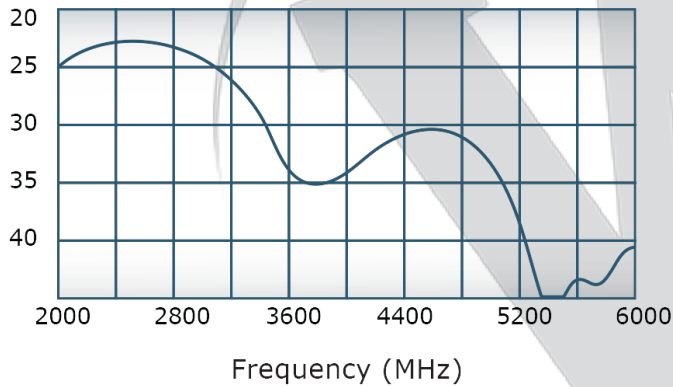
Coupling:



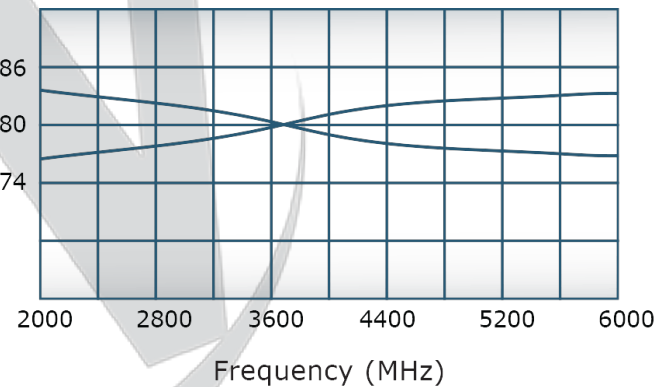
VSWR:



Isolation:



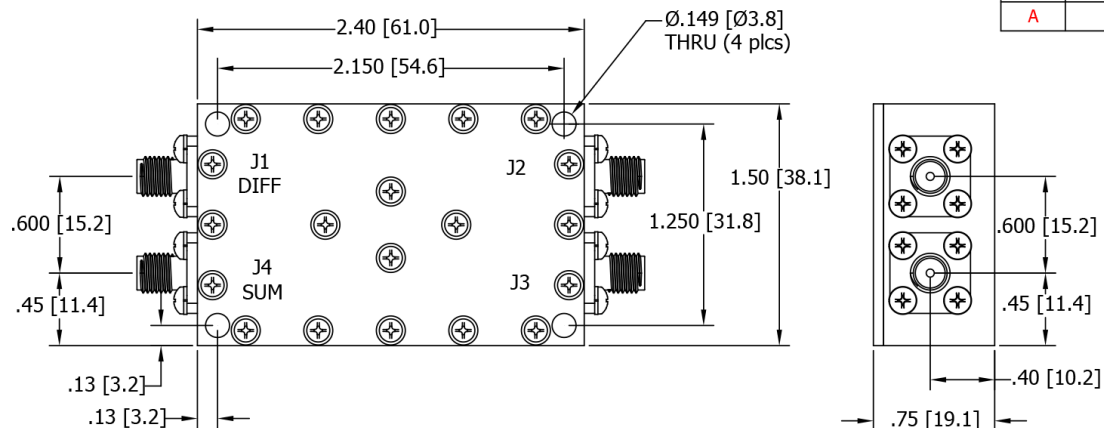
Phase Balance:




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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> <ul style="list-style-type: none">• INTERPRET DRAWING IAW MIL-STD-100• DIMENSIONING PER ASME Y14.5M-2009• PARENTHEITICAL INFO FOR REF ONLY• DIMENSIONS ARE IN INCHES• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES• TOLERANCES: ANGLES ± 2-3 PL ± .0052 PL ± .015	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			
			ENGR	DATE			
			BW	02/24/15			
			MFGR	DATE			
			QA	DATE	SIZE	CAGE CODE	DWG NO
21300-300					A	28812	21300-500
APPLICATION		THIRD ANGLE PROJECTION 		SCALE	1:1		SHEET 1 OF 1

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