



PRODUCT DATA SHEET

H7498

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: 200 - 1000 MHz
Power: 750 W CW
Insertion Loss: 0.3 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: $180^\circ \pm 5^\circ$ Max.
Amplitude Balance: ± 0.35 dB Max.
Isolation: 20 dB Min.

Connector Configurations:

Model	Sum Port (J1)	Diff Port (J2)	Inputs (J3,J4)
H7498-10	N Female	N Female	N Female
H7498-20	7/16 Female	N Female	N Female
H7498-28	7/16 Female	7/16 Female	7/16 Female

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Weight:	4.25 lbs.
Size:	8.5 x 5.0 x 1.5"

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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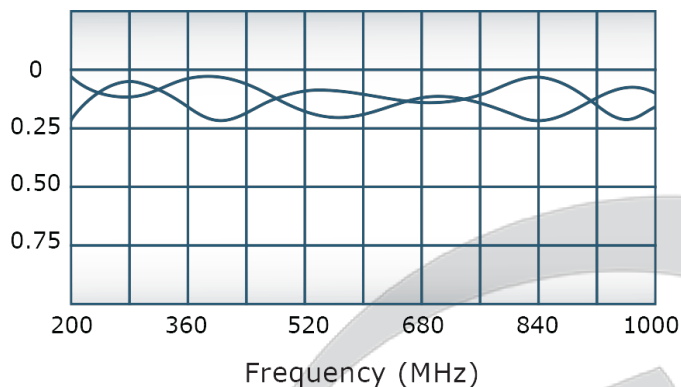


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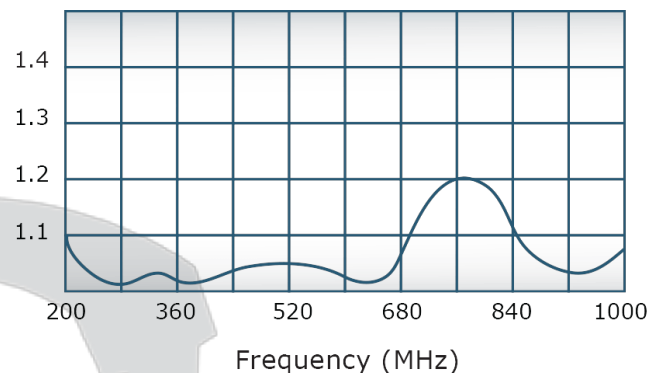
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Performance Data (Specifications subject to change without notice):

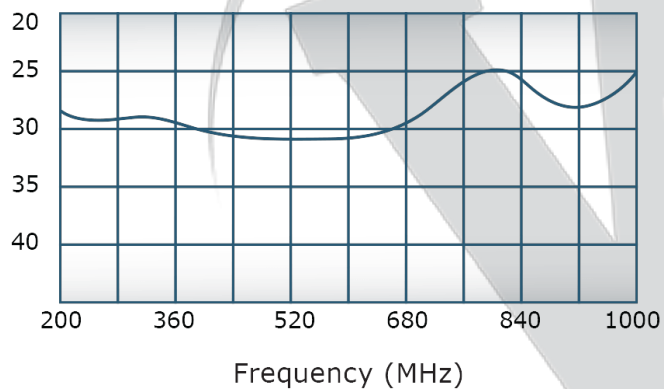
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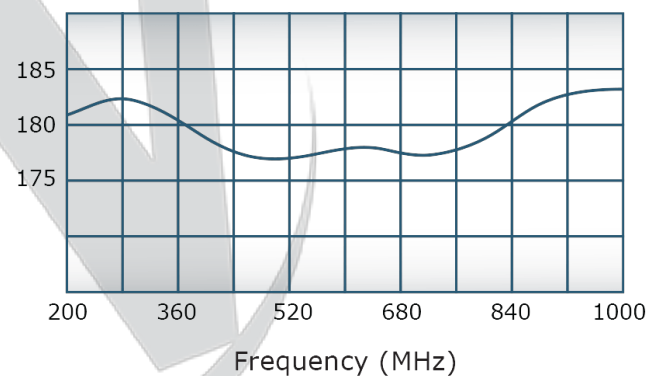
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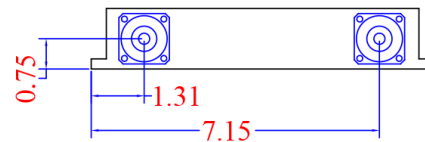
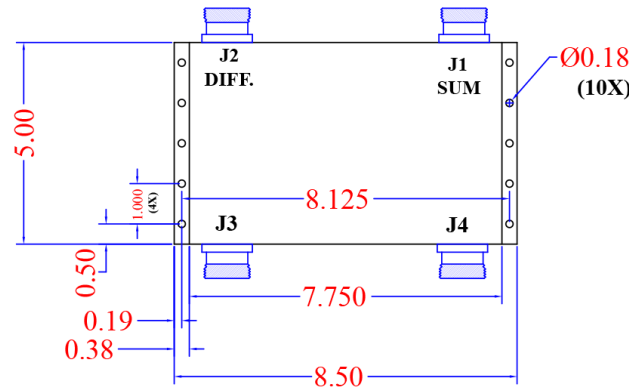
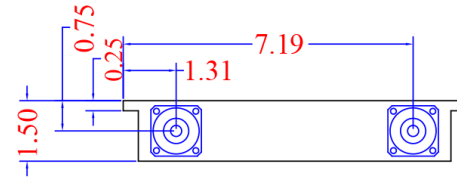
Isolation:



Phase Balance:



DATE	SYM	REVISION RECORD	AUTH	DR	CK



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