



PRODUCT DATA SHEET

H8151

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: | 20 - 1000 MHz |
| Power: | 20 W CW |
| Insertion Loss: | 1.3 dB Max. |
| VSWR: | 1.40:1 Max. |
| Phase Balance: | 180° ± 5° 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 I Class 3 (Yellow Iridite) RoHS Compliant Available |
| Operating Temperature: | -55°C to +75°C |
| Storage Temperature: | -60°C to +85°C |
| Size: | 4.0 x 1.6 x 0.8" |

Connector Configurations:

| | | |
|--------------|----------------------|-------------------------------|
| Model | Sum Port (J1) | Inputs/Outputs (J2,J3) |
| H8151-102 | 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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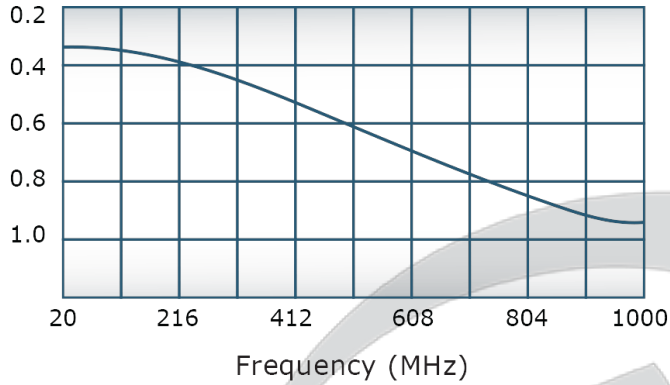
Werlatone, Inc.

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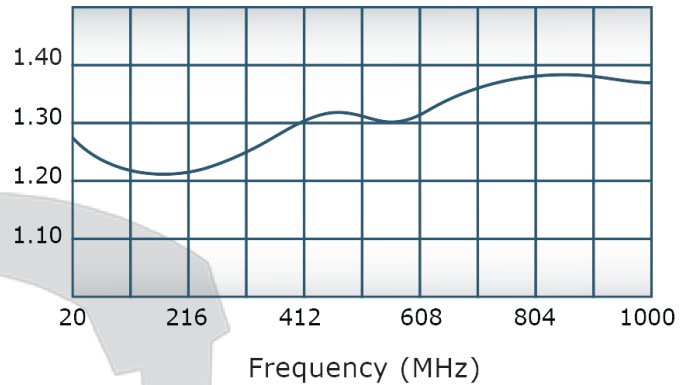


Performance Data (Specifications subject to change without notice):

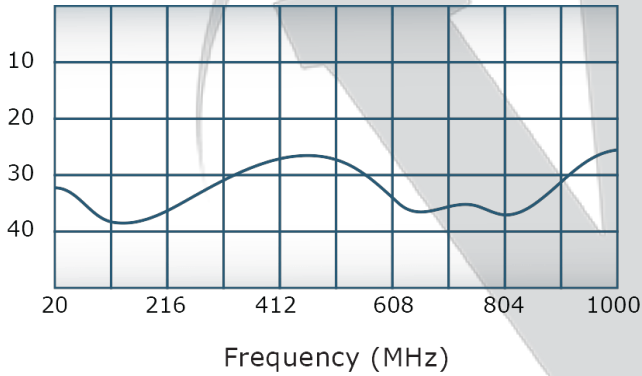
Insertion Loss:



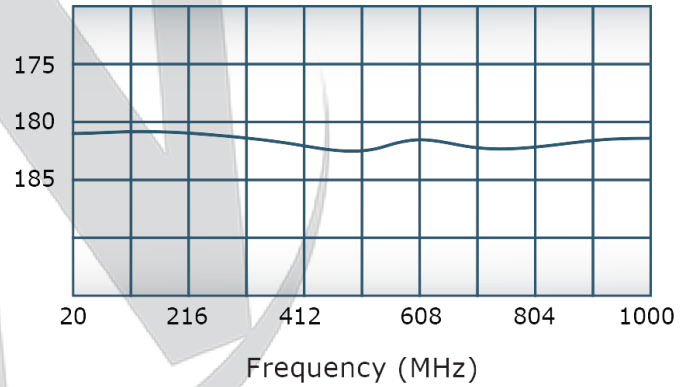
VSWR:



Isolation:



Phase Balance:

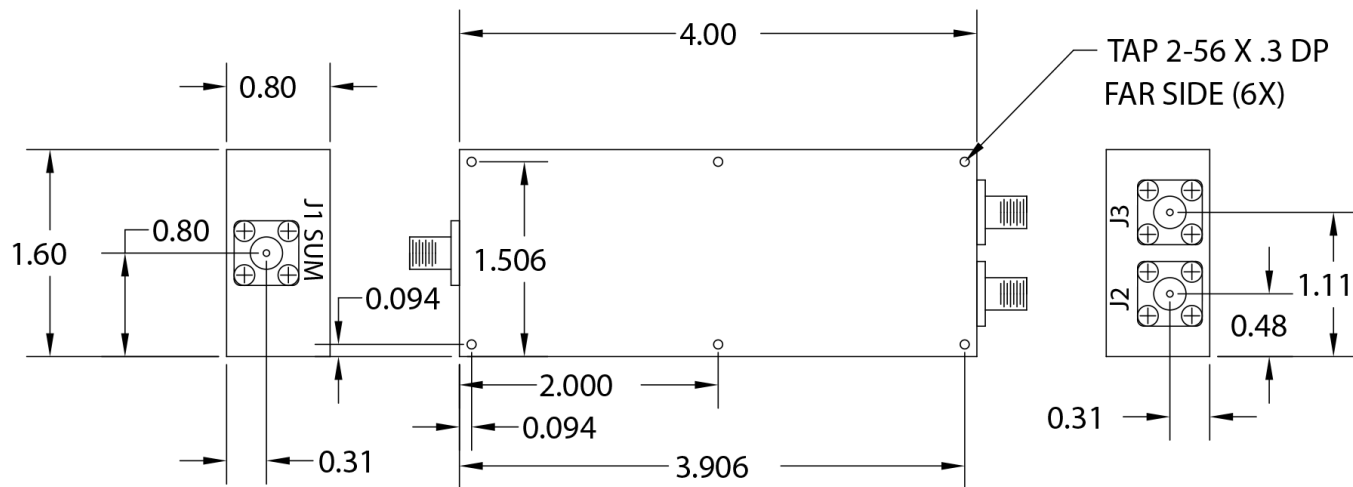


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| DATE | SYM | REVISION RECORD | AUTH | DR | CK |
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