



PRODUCT DATA SHEET H7971

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: 100 - 1000 MHz Power: 50 W CW Insertion Loss: 1.3 dB Max. VSWR: 1.30:1 Max. Phase Balance: $180^{\circ} \pm 5^{\circ} \text{ Max}$. Amplitude Balance: $\pm 0.4 \text{ dB Max}$. 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 $+75^{\circ}$ C Storage Temperature: -60° C to $+85^{\circ}$ C Size: $4.0 \times 1.6 \times 0.8$ "

Connector Configurations:

Model Sum Port (J1) Inputs 180°,0° (J2, J3)

H7971-102 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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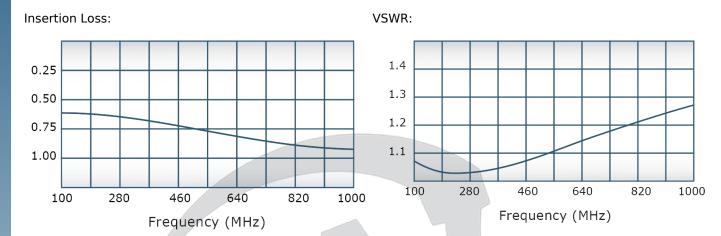
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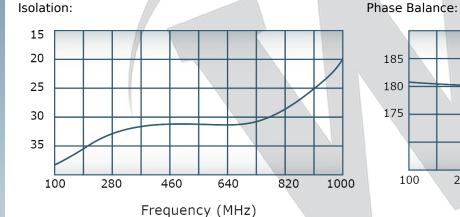




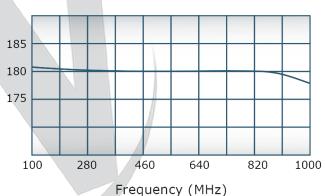
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Performance Data (Specifications subject to change without notice):



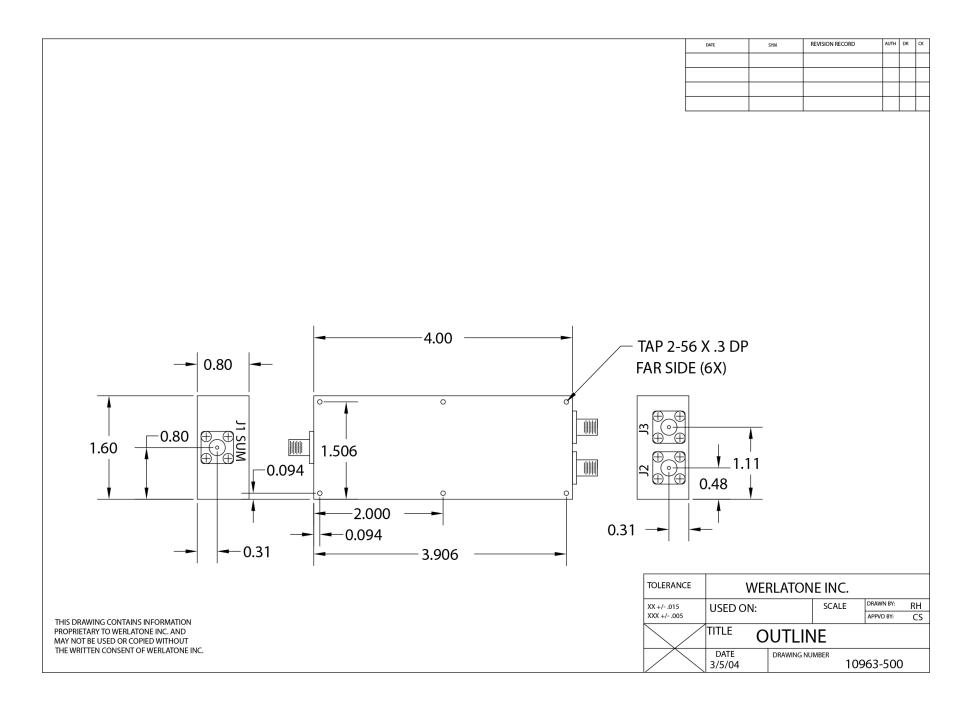


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H7971 Rev.-



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