



PRODUCT DATA SHEET H7683

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 - 500 MHz
Power: 100 W CW
Insertion Loss: 0.8 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: 180° ± 5° Max.
Amplitude Balance: ± 0.4 dB Max.
Isolation: 25 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

Weight: 0.5 lbs.

Size: 4.0 x 1.6 x 0.8"

Connector Configurations:

 Model
 Sum Port (J4)
 0°, 180° (J2,J3)

 H7683-10
 N Female
 N Female

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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Performance Data (Specifications subject to change without notice):

1.4
0.50
0.75
1.00
100
180
260
340
420
500

Frequency (MHz)

1.4 1.3 1.2

260

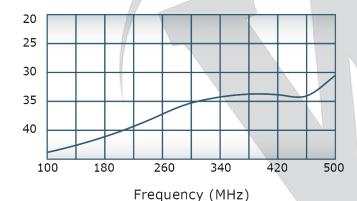
Frequency (MHz)

340

420

500

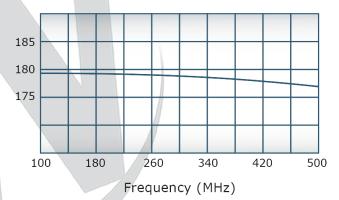
Isolation:



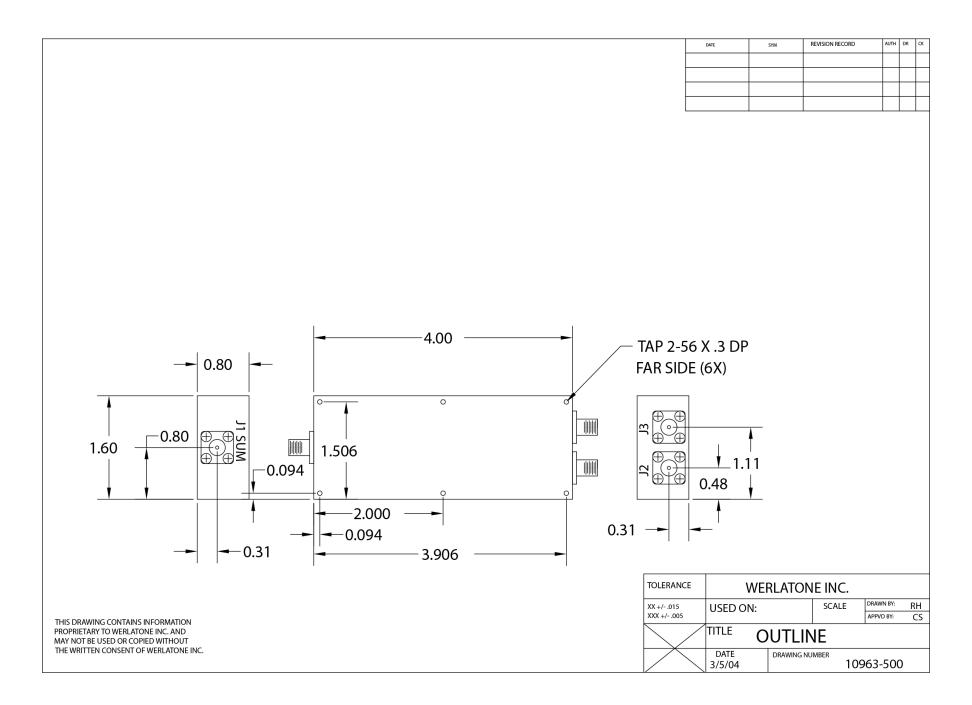
Phase Balance:

100

180



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