

PRODUCT DATA SHEET

H3715

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 - 400 MHz
 Power: 200 W CW
 Insertion Loss: 0.3 dB Max.
 VSWR: 1.40:1 Max.
 Phase Balance: 180° ± 5° Max.
 Amplitude Balance: ± 0.15 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
 Weight: 0.75 lbs.
 Size: 3.0 x 3.0 x 1.87"

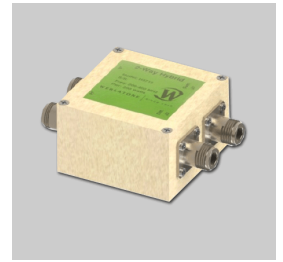
Connector Configurations:

| Model | Sum Port (J1) | Inputs (J2,J3) | Diff. Port (J4) |
|-----------|---------------|----------------|-----------------|
| H3715-10 | N Female | N Female | N Female |
| H3715-102 | 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.

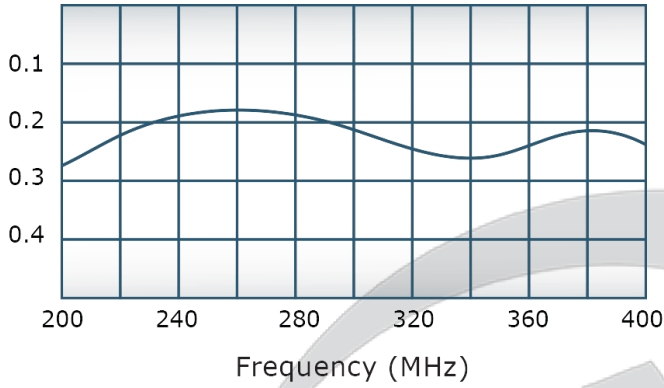
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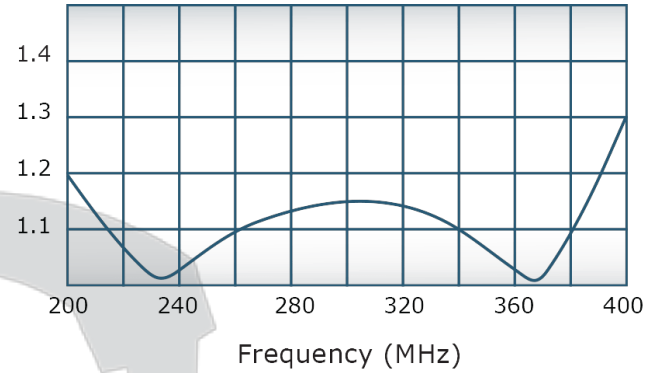


Performance Data (Specifications subject to change without notice):

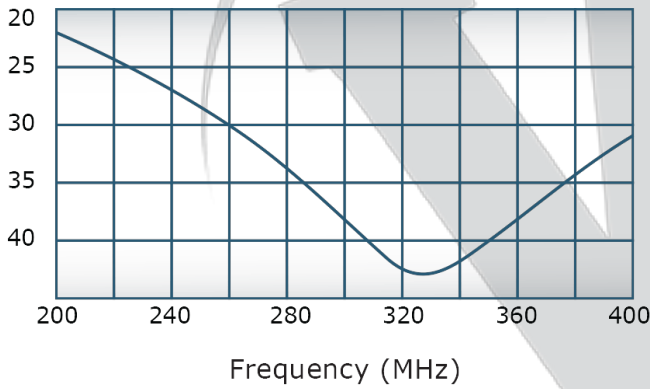
Insertion Loss:



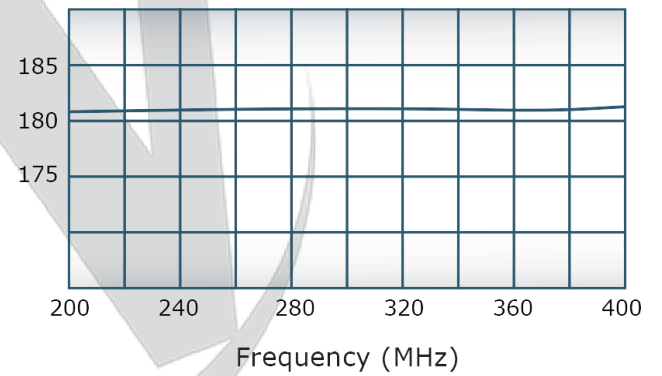
VSWR:



Isolation:



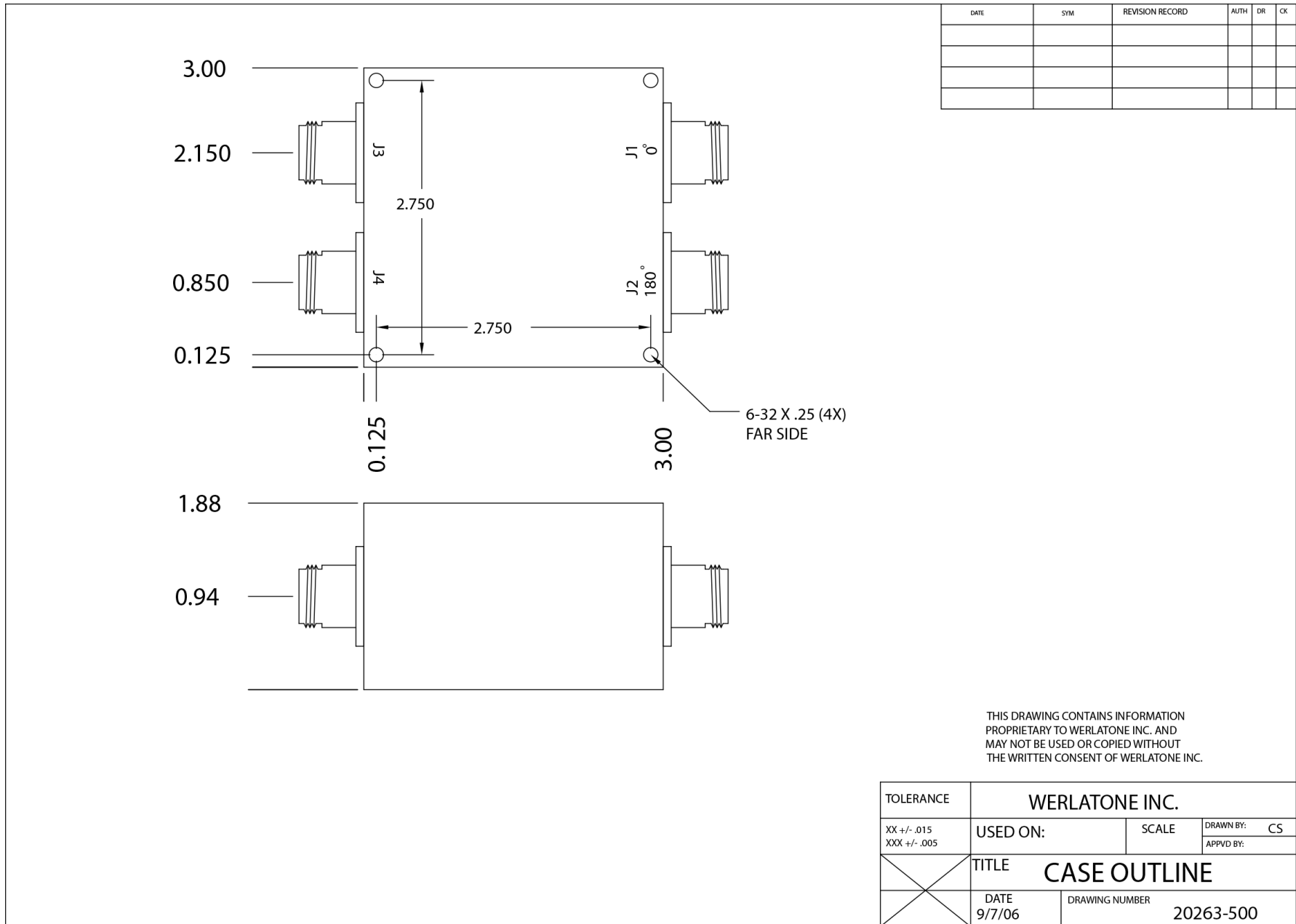
Phase Balance:



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| DATE | SYM | REVISION RECORD | AUTH | DR | CK |
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| | DATE 9/7/06 | DRAWING NUMBER 20263-500 | | |

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