



PRODUCT DATA SHEET

H3670

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: 400 W CW
 Insertion Loss: 0.2 dB Max.
 VSWR: 1.40:1 Max.
 Phase Balance: $180^\circ \pm 5^\circ$ Max.
 Amplitude Balance: ± 0.2 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: 5.0 x 3.0 x 2.24"

Connector Configurations:

Model	Sum Port (J1)	Input Port (J2)	Output Ports (J3,J4)
H3670-10	N Female	N Female	N Female
H3670-12	N Female	SMA	SMA
H3670-102	SMA	SMA	SMA

- Unit designed to operate continuously with one input failure at rated power.
- Unit designed to operate as a Non-Coherent Combiner at 200 W / input.
- Should the unit be used as a 0° In-Phase Combiner/Divider, J1 is the Input Port, J3 & J4 are the Output Ports, and J2 is the Load Port, in which the customer terminates it externally with a 50 Ohm Load.

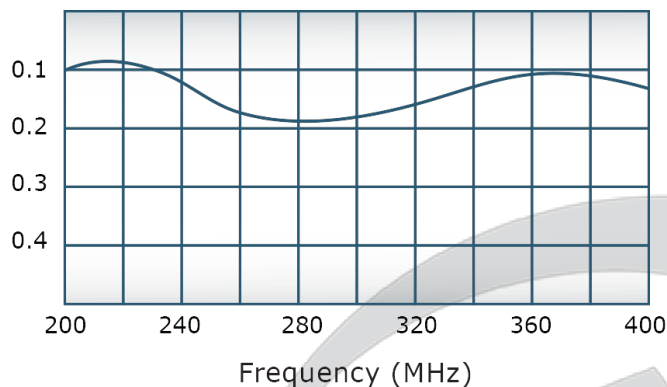


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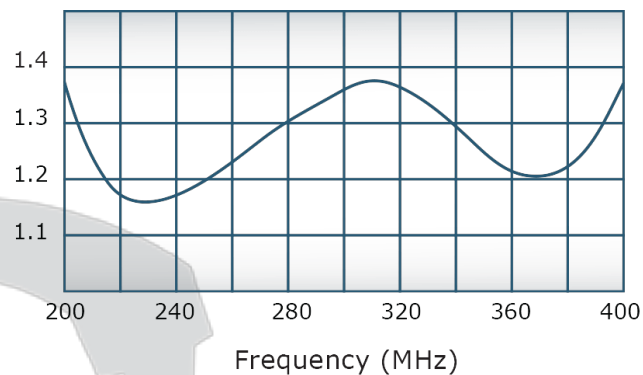
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Performance Data (Specifications subject to change without notice):

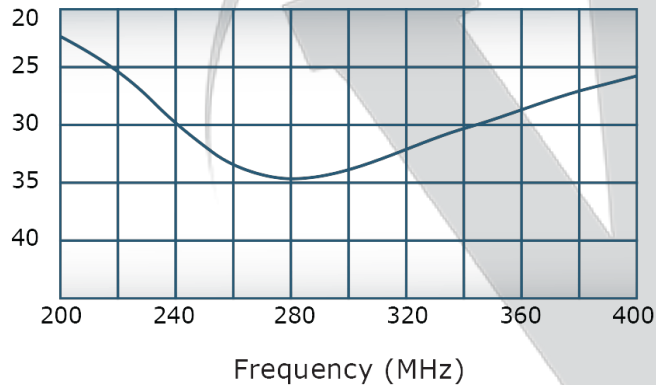
Insertion Loss:



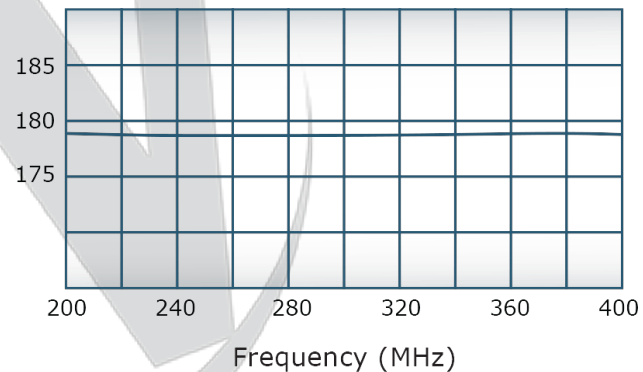
VSWR:



Isolation:



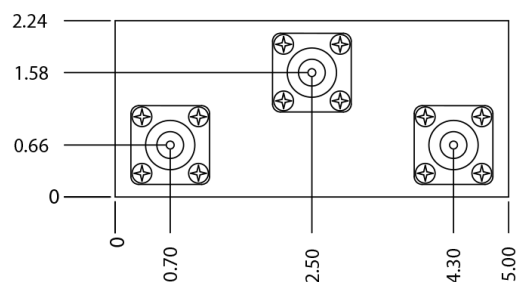
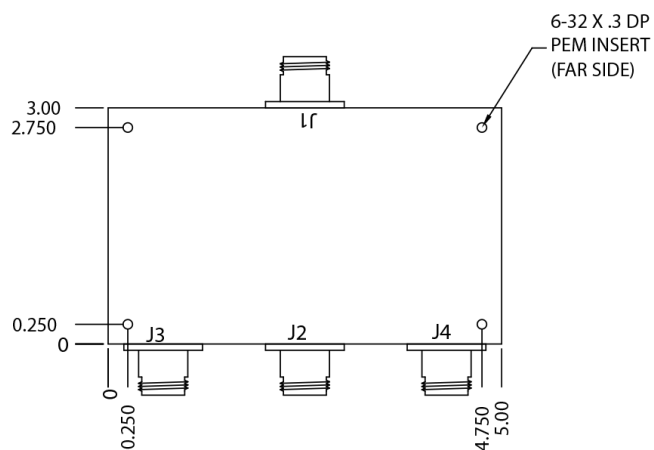
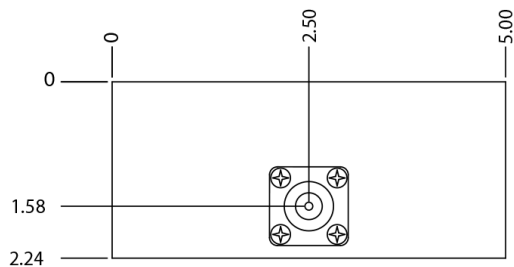
Phase Balance:



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