



## 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° $\pm$ 5° Max.
Amplitude Balance:	$\pm$ 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.



# WERLATONE

Model H3670

180° Hybrids Connectorized

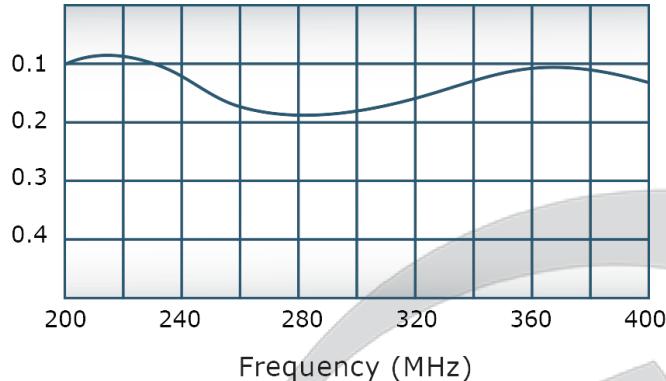


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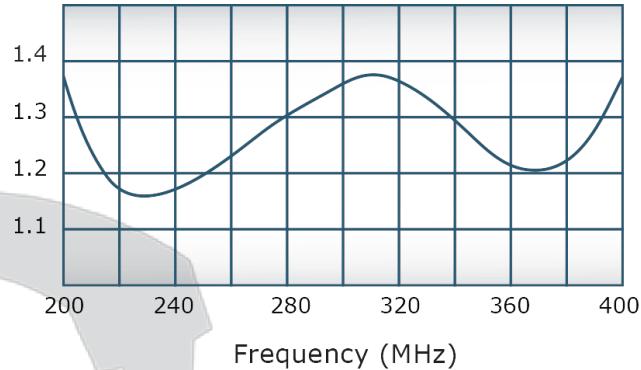
H3670

### Performance Data (Specifications subject to change without notice):

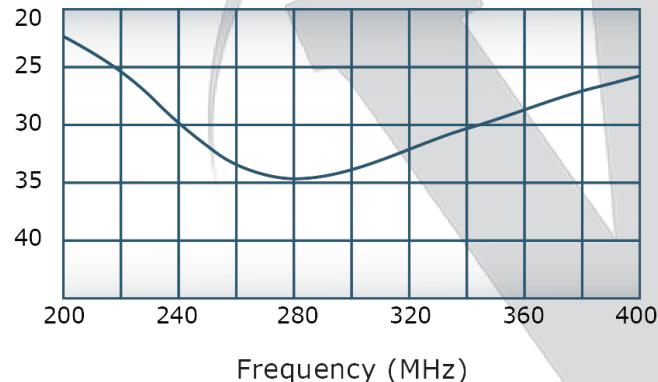
Insertion Loss:



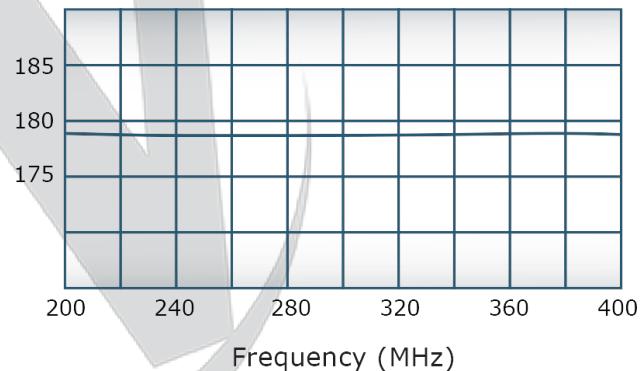
VSWR:



Isolation:



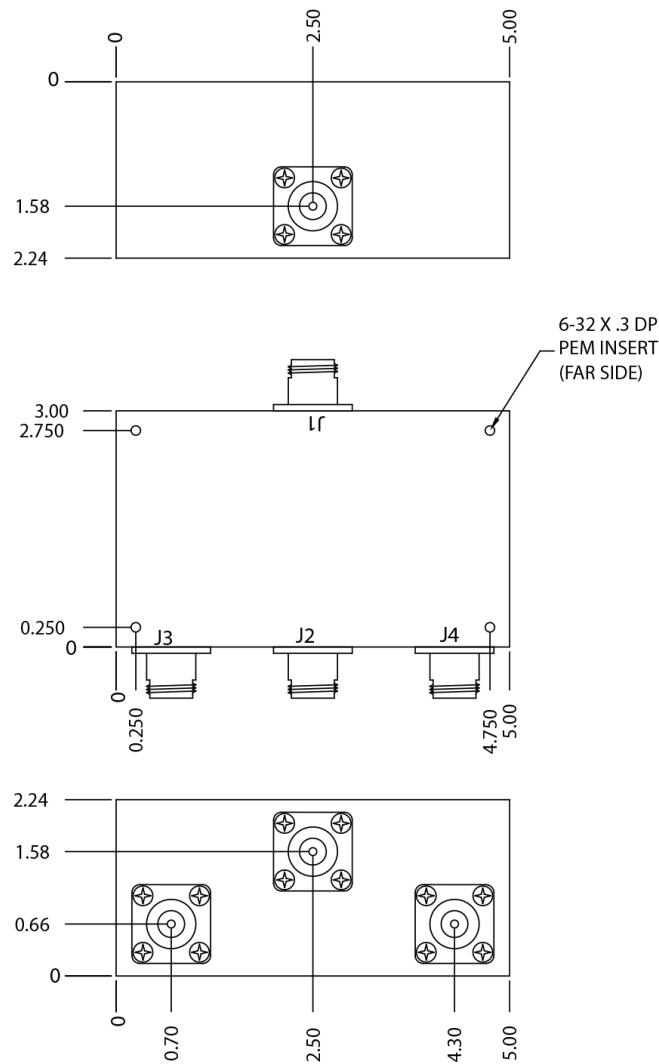
Phase Balance:



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