

## PRODUCT DATA SHEET

QH3548

### Our patented 3 dB 90° Hybrid Couplers provide:

- Superior component performance starting at 3:1 Bandwidth.
- Thicker center boards for high power and increased repeatability.
- Bonded structures which eliminate any air gaps between substrates.
- More sections per bandwidth for better coupling flatness.
- Electrically shorter and physically smaller RF components.

### Features:

High Power      Wide Bandwidths      Small Size      Connectorized      Drop-In & Surface Mount

### Electrical Specifications:

Frequency: 470 - 860 MHz  
Power: 300 W CW  
Insertion Loss: 0.3 dB Max.  
VSWR: 1.30:1 Max.  
Phase Balance:  $90^\circ \pm 3^\circ$  Max.  
Amplitude Balance:  $\pm 0.5$  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: 3.7 x 1.3 x 1.0"

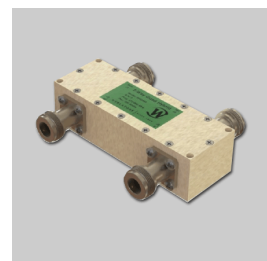
### Connector Configurations:

Model	Sum Port (J1)	0°, 90° (J2,J3)	Isolated Port (J4)
QH3548-10	N Female	N Female	N Female
QH3548-12	N Female	SMA	SMA
QH3548-102	SMA Female	SMA Female	SMA

**Werlatone's** breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.

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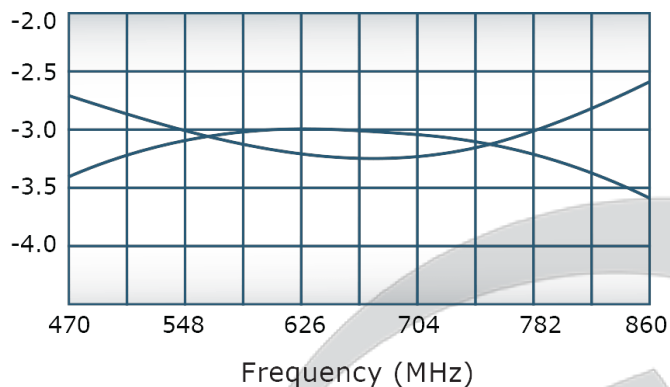


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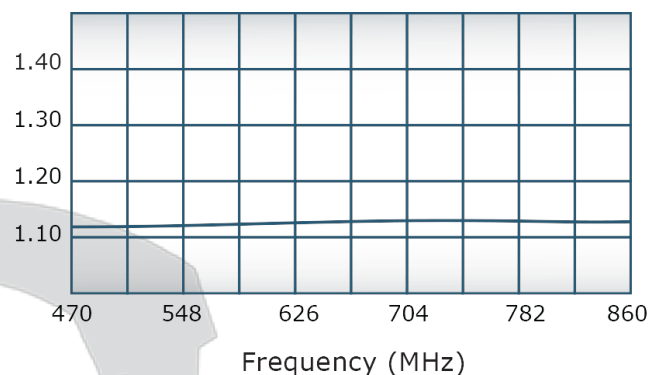
QH3548

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

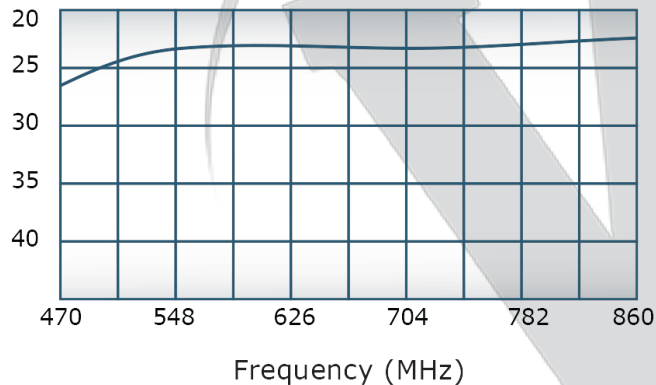
Coupling:



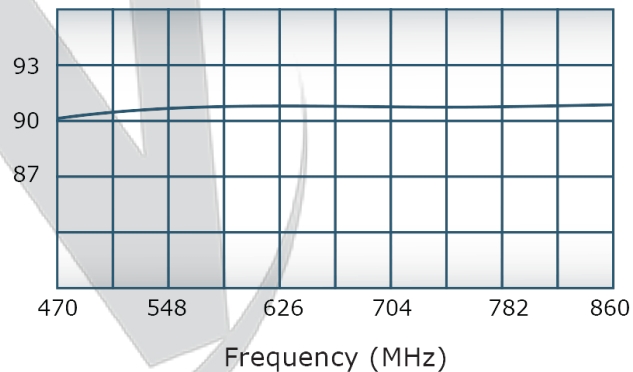
VSWR:



Isolation:



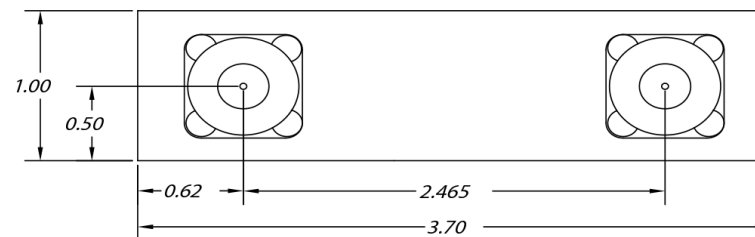
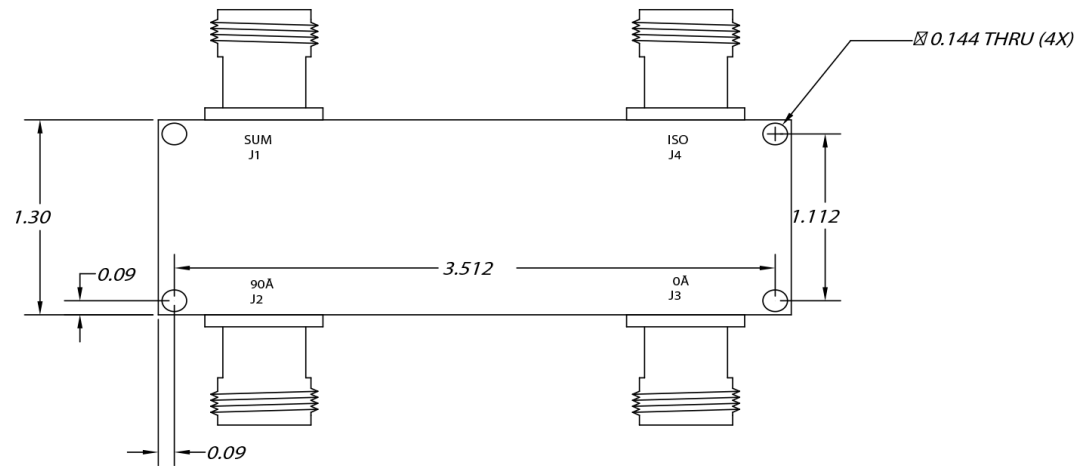
Phase Balance:



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