



## PRODUCT DATA SHEET

QH9338

### 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: 20 - 520 MHz  
Power: 250 W CW  
Insertion Loss: 0.6 dB Max.  
VSWR: 1.30:1 Max.  
Phase Balance: 90° ± 10° Max.  
Amplitude Balance: ± 0.3 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: 2.7 x 2.7 x 1.25"

### Connector Configurations:

| Model      | Sum Port (J1) | 90°, 0° (J2,J3) | Ext. Load Port |
|------------|---------------|-----------------|----------------|
| QH9338-10  | N Female      | N Female        | Not Applicable |
| QH9338-12  | N Female      | SMA             | Not Applicable |
| QH9338-102 | SMA           | SMA             | Not Applicable |
| QH9338-301 | TNC Female    | N Female        | Not Applicable |
| QH9338-302 | TNC Female    | SMA             | Not Applicable |

**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.

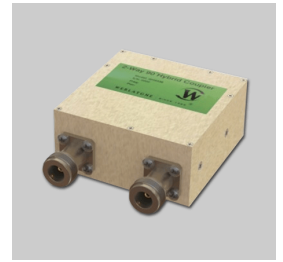
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# WERLATONE

Model QH9338  
90° Hybrids Connectorized

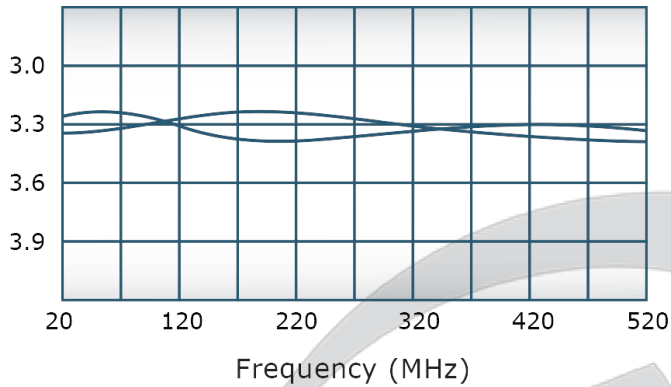


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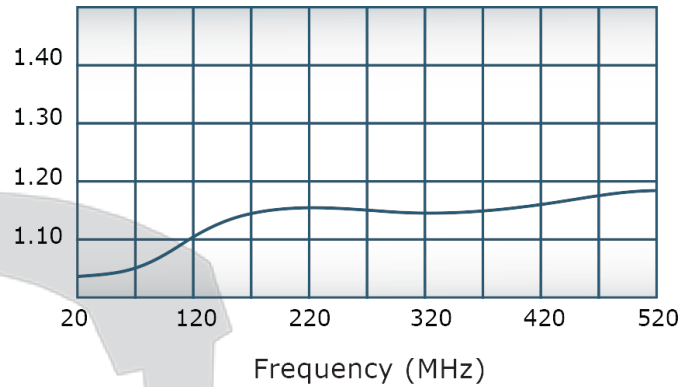
QH9338

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

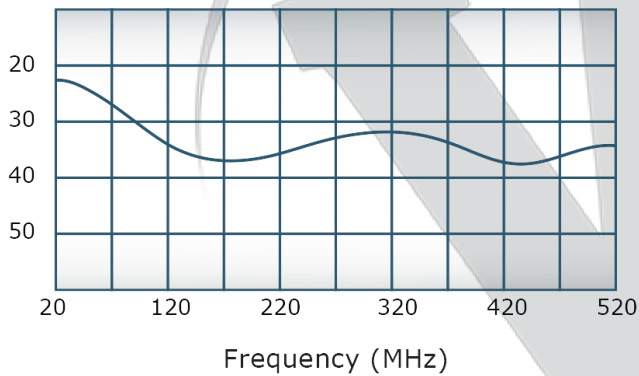
Coupling:



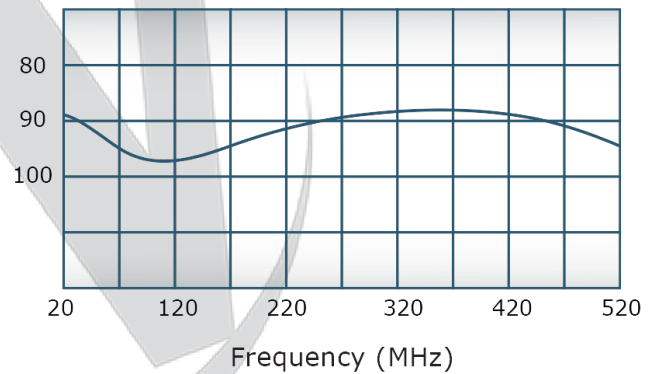
VSWR:



Isolation:



Phase Balance:



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