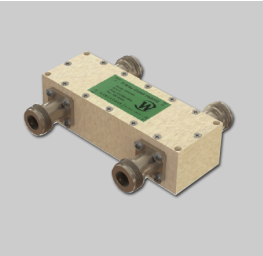
WERLATONE

Model QH3548



**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° ± 3° Max. |
| Amplitude Balance: | ± 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'' |

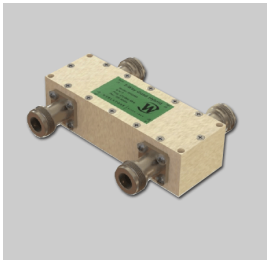
**Connector Configurations:**

| **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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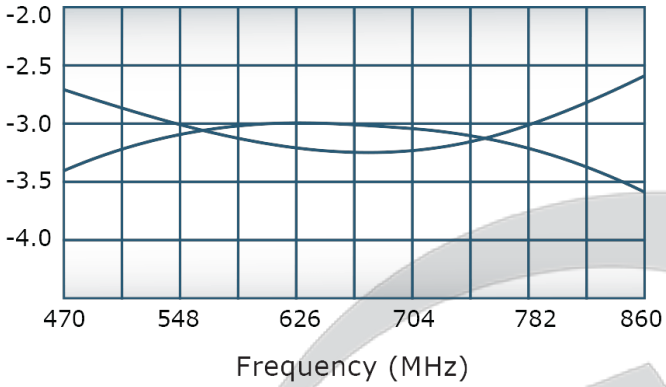
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



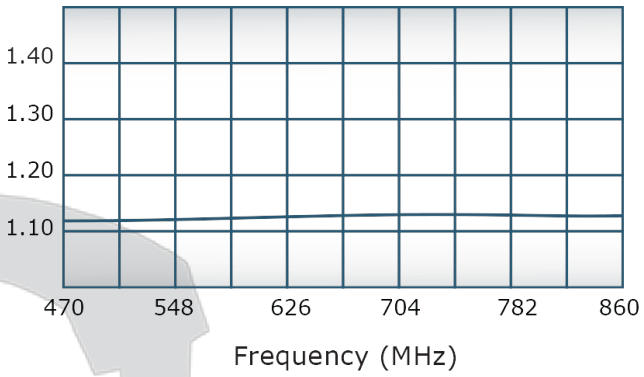


## Performance Data (Specifications subject to change without notice):

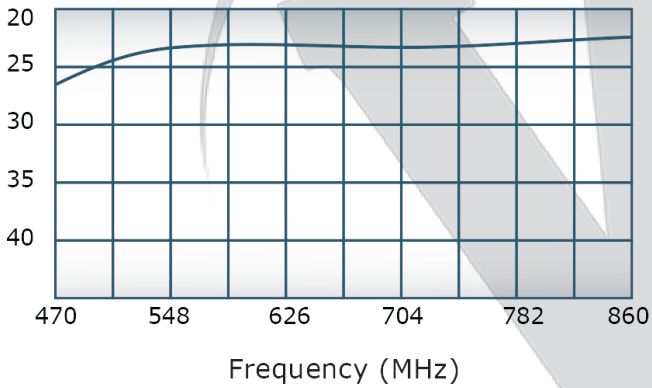
Coupling:



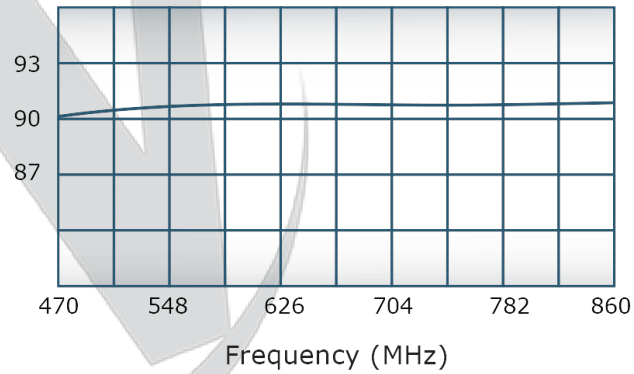

VSWR:




Isolation:

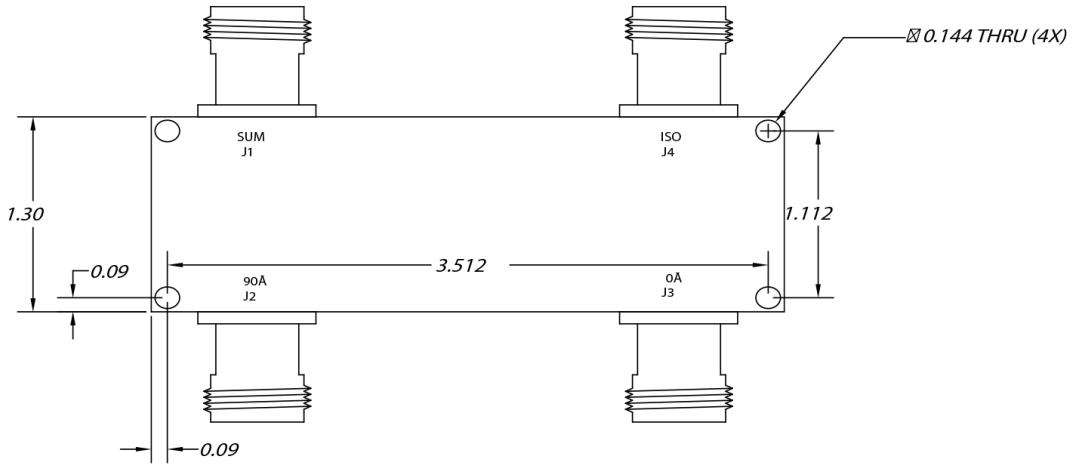


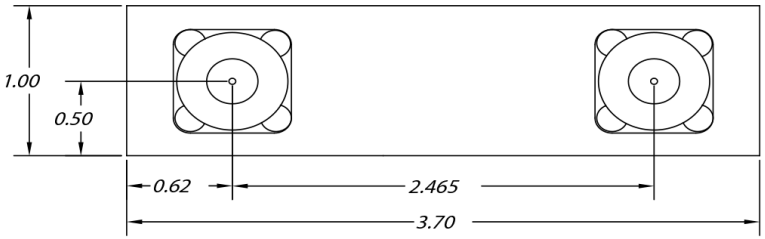

Phase Balance:




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