

## PRODUCT DATA SHEET

QH11675

### 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: 2 - 30 MHz  
Power: 2500 W CW  
Insertion Loss: 0.3 dB Max.  
VSWR: 1.25:1 Max.  
Phase Balance:  $\pm 6^\circ$  dB Max.  
Amplitude Balance:  $\pm 0.2$  dB Max.  
Isolation: 25 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: 8.0 x 5.5 x 3.4"

### Connector Configurations:

| Model      | Sum Port (J3) | 0°, 90° (J1,J2) | Ext. Load Port |
|------------|---------------|-----------------|----------------|
| QH11675-10 | N Female      | N Female        | Not Applicable |
| QH11675-13 | N Female      | BNC Female      | 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.

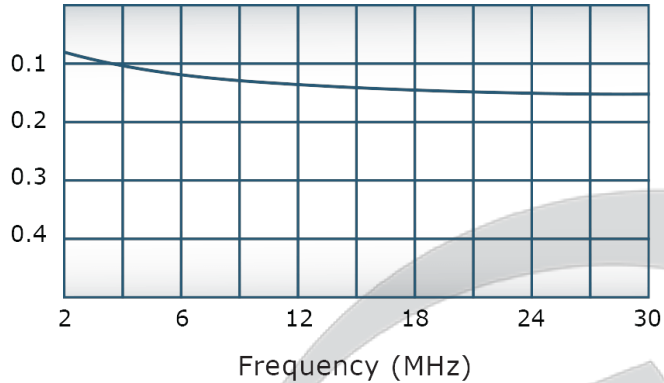


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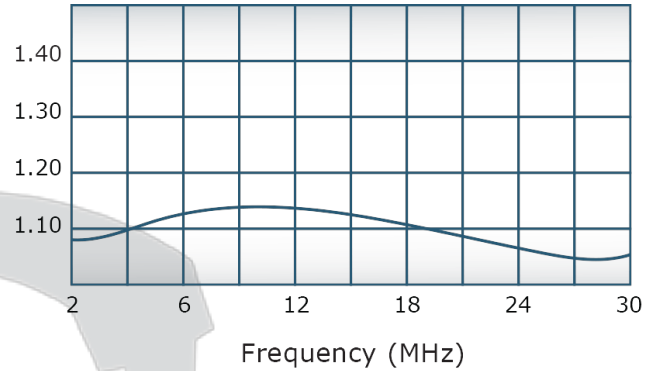
QH11675

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

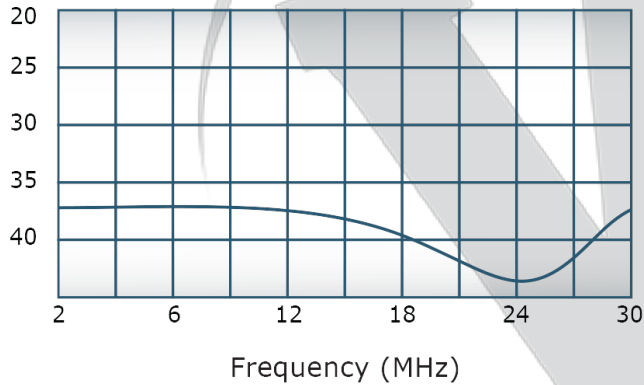
Insertion Loss:



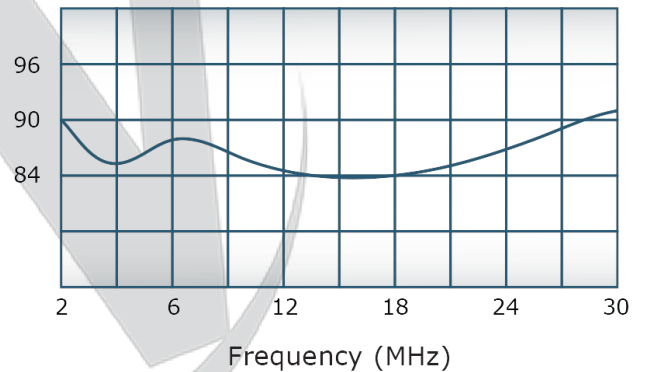
VSWR:



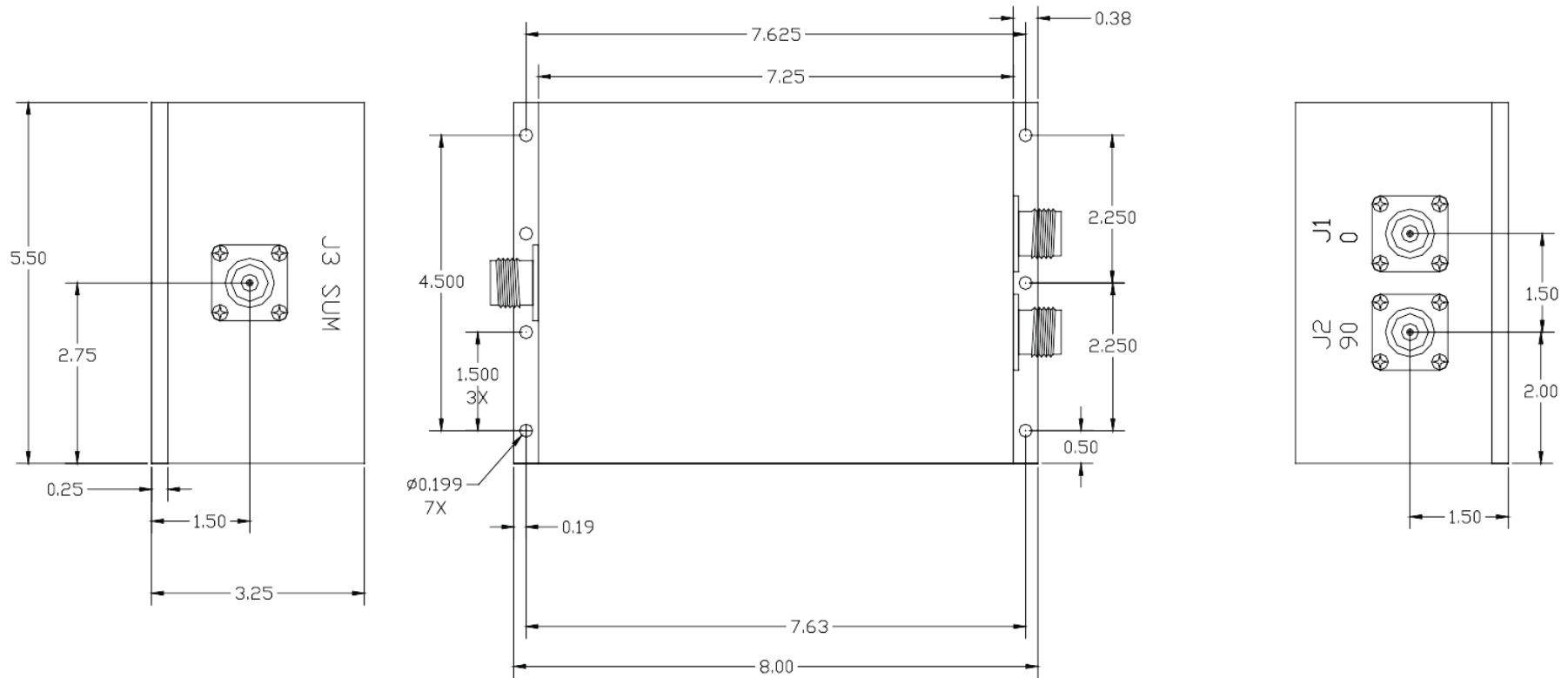
Isolation:



Phase Balance:



| DATE | SYM | REVISION RECORD | AUTH | DR  | CK |
|------|-----|-----------------|------|-----|----|
| 4/18 | -   | INITIAL RELEASE |      | PLP |    |
| 4/18 | A   | ECN 9563        | CS   | PLP |    |
|      |     |                 |      |     |    |
|      |     |                 |      |     |    |



|                             |                     |                             |                               |  |
|-----------------------------|---------------------|-----------------------------|-------------------------------|--|
| TOLERANCE                   | WERLATONE INC.      |                             |                               |  |
| XX +/- .015<br>XXX +/- .005 | USED ON:<br>QH11675 | SCALE                       | DRAWN BY: PLP<br>APPVD BY: CS |  |
|                             |                     |                             |                               |  |
|                             |                     |                             |                               |  |
|                             | DATE<br>4/17/18     | DRAWING NUMBER<br>21606-500 |                               |  |

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