



## PRODUCT DATA SHEET

QH6651

### 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:            225 - 410 MHz  
 Power:                1200 W CW  
 Insertion Loss:       0.2 dB Max.  
 VSWR:                1.30:1 Max.  
 Phase Balance:       90° ± 5° Max.  
 Amplitude Balance: ± 0.6 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  
 Weight:                1.75 lbs.  
 Size:                    8.0 x 2.0 x 1.12"

### Connector Configurations:

Model	Sum Port (J1)	Inputs (J2,J3)	Isolated Port (J4)
QH6651-10	N Female	N Female	N Female
QH6651-20	7/16 Female	N Female	N Female

**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.

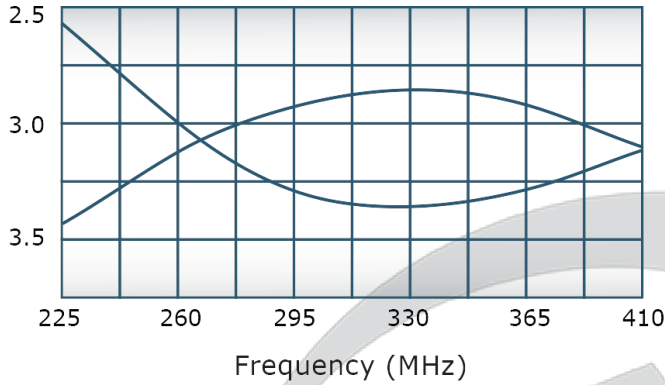
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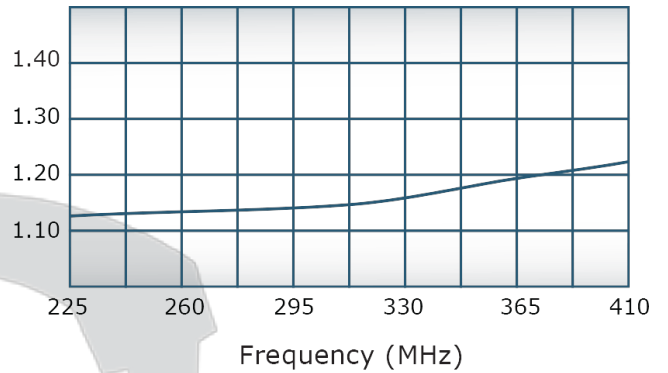


## Performance Data (Specifications subject to change without notice):

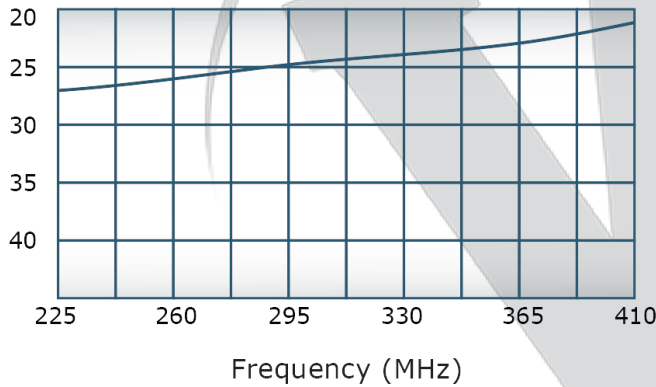
Insertion Loss:



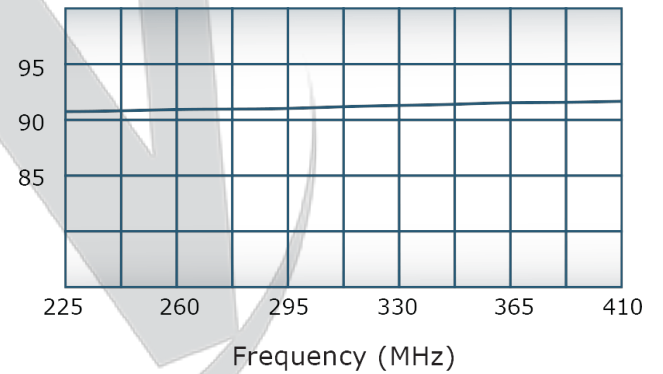
VSWR:



Isolation:



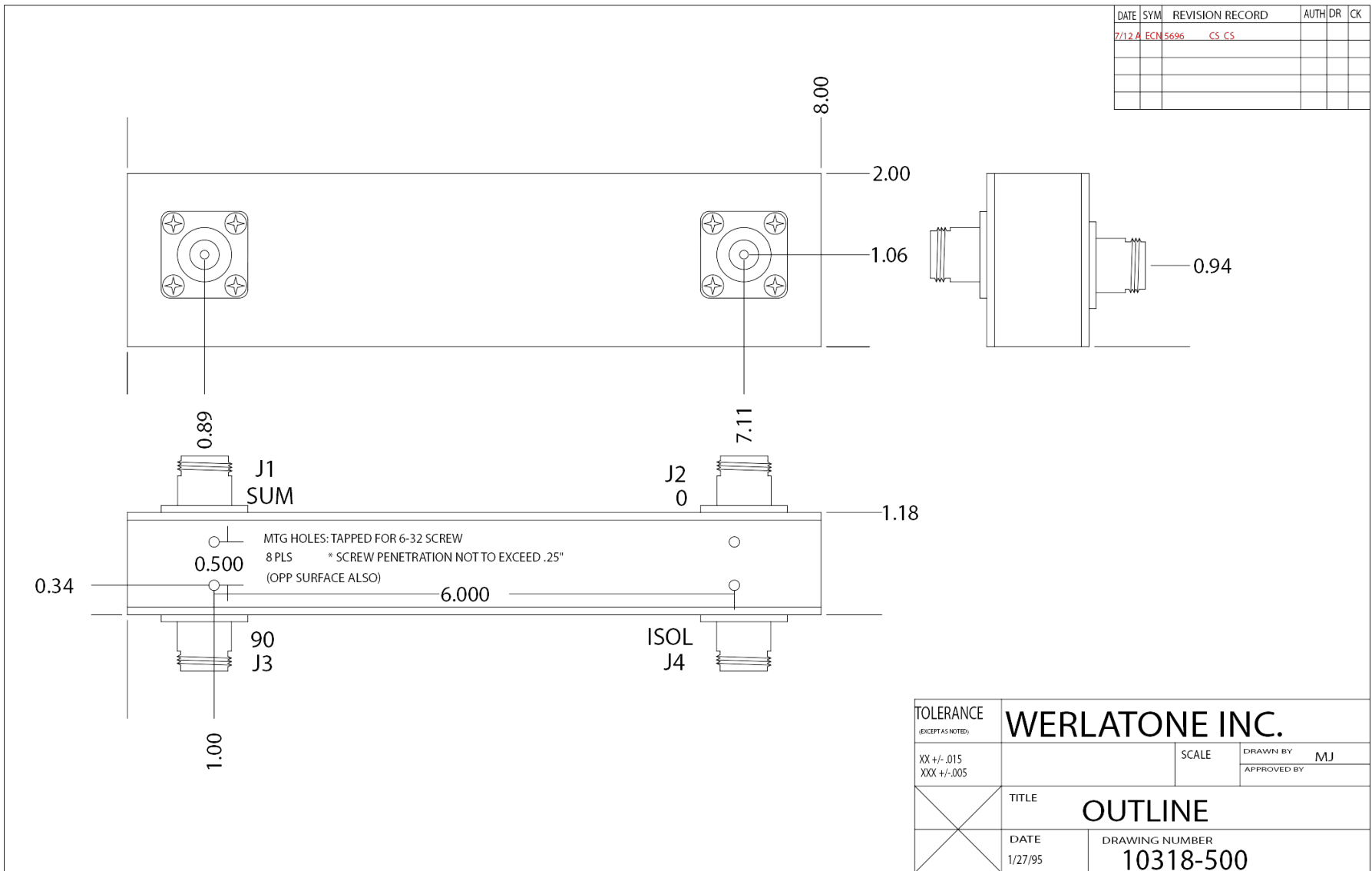
Phase Balance:



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