



## 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.

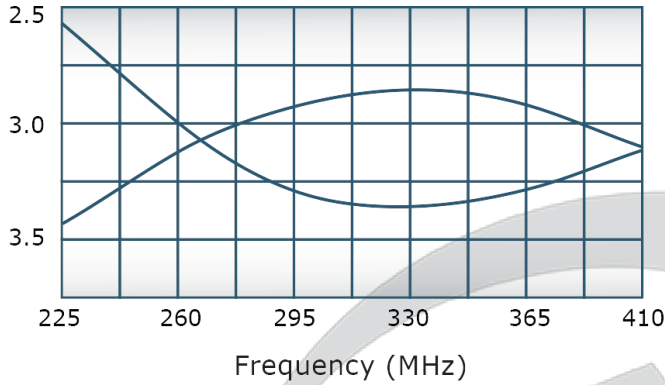
**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.

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

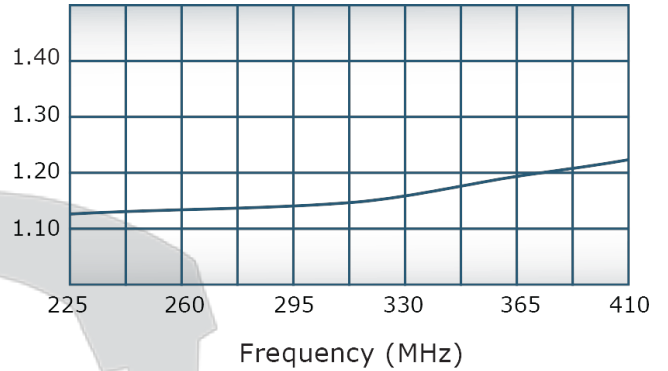


## Performance Data (Specifications subject to change without notice):

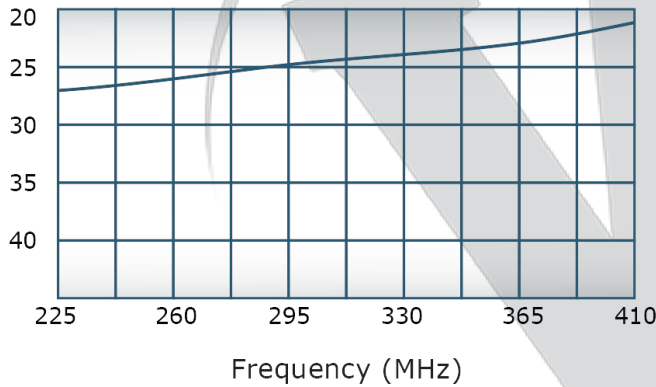
Insertion Loss:



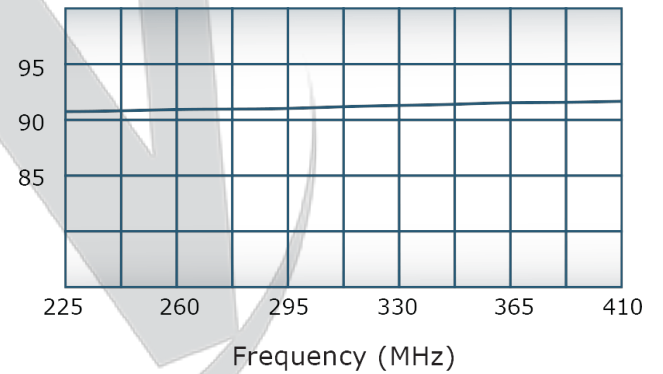
VSWR:



Isolation:



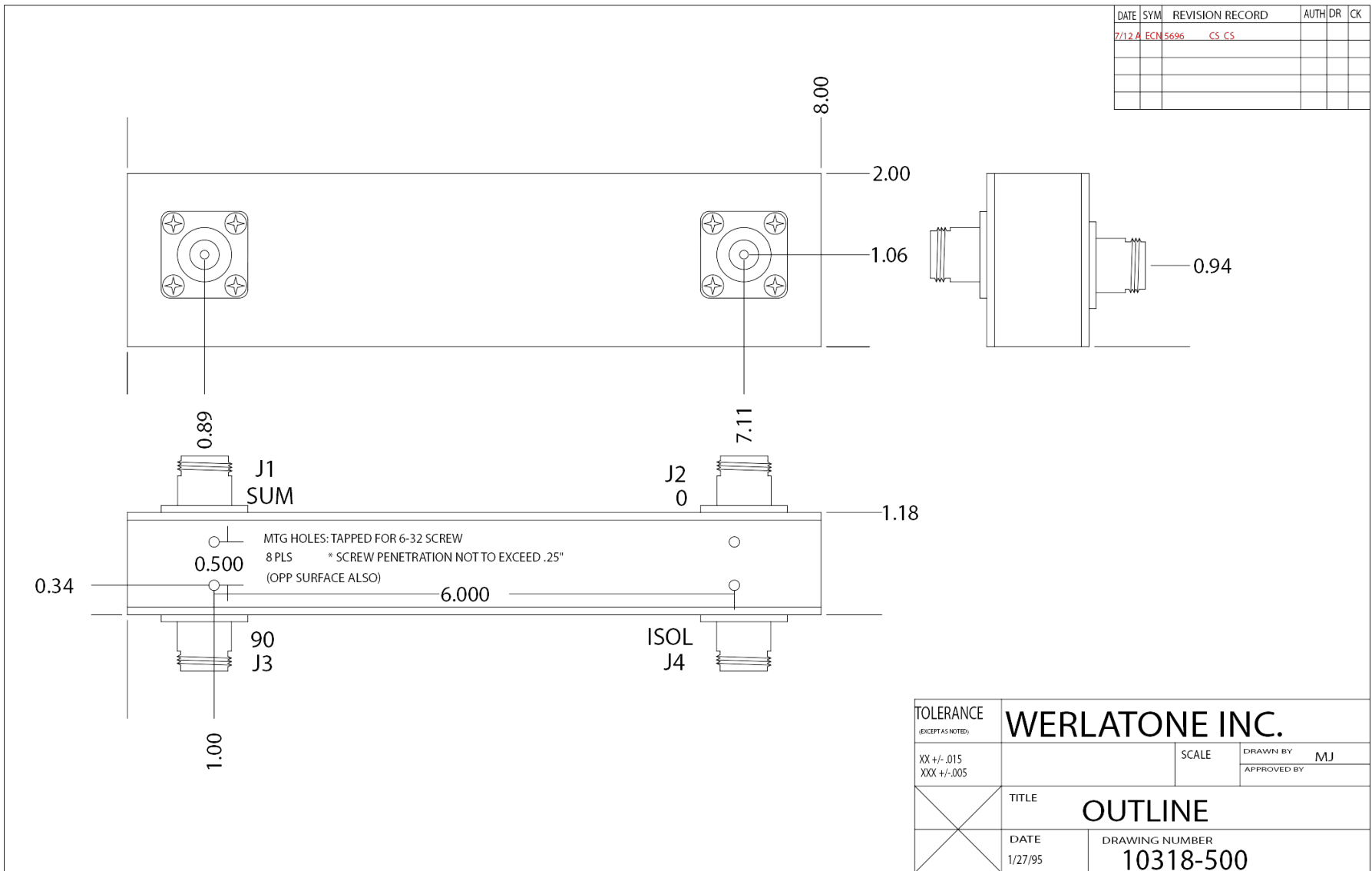
Phase Balance:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

Werlatone, Inc.

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



DATE	SYM	REVISION RECORD	AUTH	DR	CK
7/12	ECN	5696 CS CS			

TOLERANCE (EXCEPT AS NOTED) XX +/- .015 XXX +/- .005	WERLATONE INC.	
	SCALE	DRAWN BY MJ APPROVED BY
TITLE OUTLINE	DATE 1/27/95	DRAWING NUMBER 10318-500

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com