
**PRODUCT DATA SHEET**
**QH9044**
**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 &amp; Surface Mount

**Electrical Specifications:**

Frequency: 100 - 512 MHz  
Power: 400 W CW  
Insertion Loss: 0.4 dB Max.  
VSWR: 1.30:1 Max.  
Phase Balance:  $90^\circ \pm 5^\circ$  Max.  
Amplitude Balance:  $\pm 0.6$  dB Max.  
Isolation: 20 dB Min.

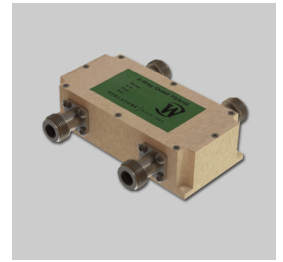
**Mechanical Specifications:**

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: 0.75 lbs.  
Size: 4.0 x 1.92 x 1.1"

**Connector Configurations:**

Model	Sum Port (J1)	0°, 90° (J2,J3)	Ext. Load Port
QH9044-10	N Female	N Female	N Female
QH9044-12	N Female	SMA	SMA
QH9044-102	SMA	SMA	SMA
QH9044-300	TNC	TNC	TNC

**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.

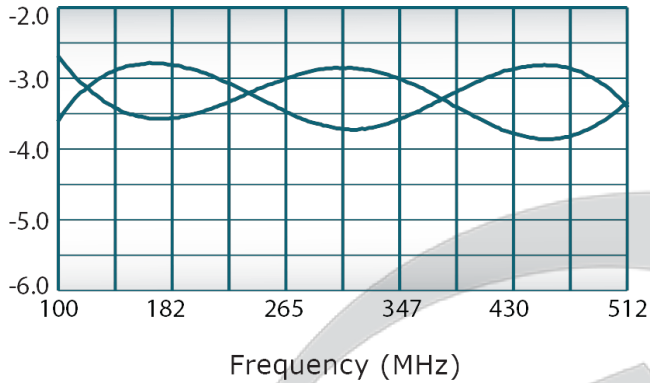


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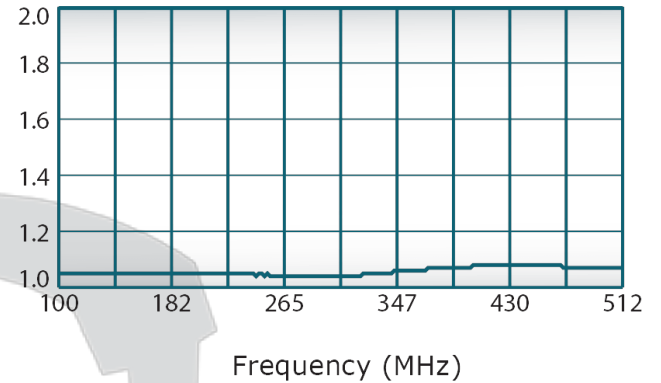
QH9044

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

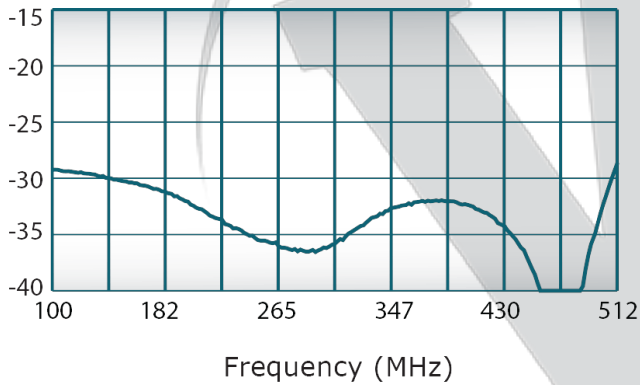
Coupling:



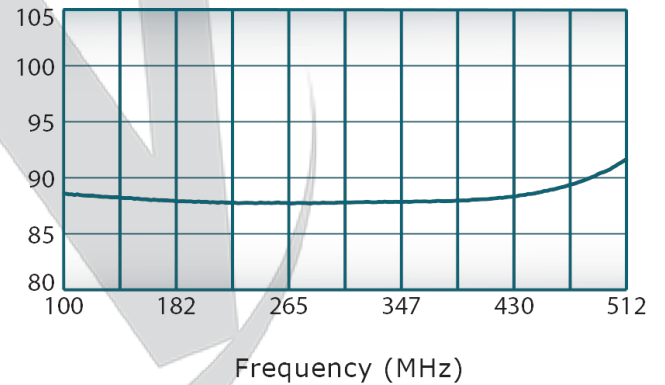
VSWR:

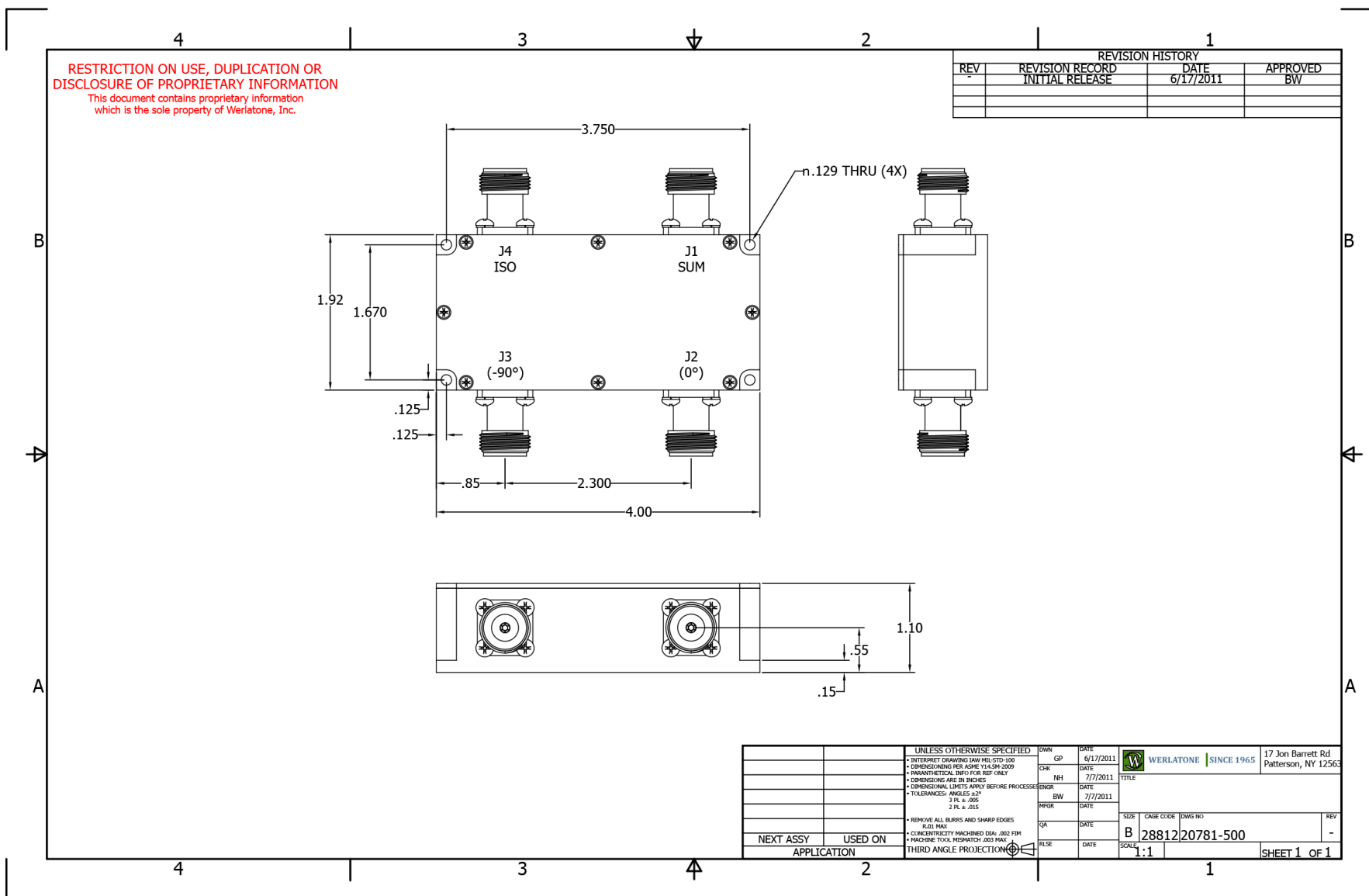


Isolation:



Phase Balance:





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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