

**PRODUCT DATA SHEET**

**QH10738**

**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      Excellent Amplitude Balance

**Electrical Specifications:**

Frequency:            20 - 1000 MHz  
 Power:                150 W CW  
 Insertion Loss        0.8 dB Max.  
 VSWR:                1.40:1 Max.  
 Phase Balance:       ± 12° dB Max.  
 Amplitude Balance: ± 0.25 dB Max.  
 Isolation:             20 dB Min.

**Mechanical Specifications:**

Material:              Aluminum 6061-T6  
 Surface Finish:      Chem. Film Per MIL-DTL-5541F Type II  
                               Class 3 (Clear Iridite)  
 Operating Temperature: -55°C to +75°C  
 Storage Temperature: -60°C to +85°C  
 Size:                    3.0 x 2.75 x 1.0"

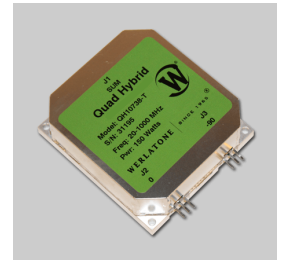
**Port Configurations:**

<b>Model</b>	<b>Sum Port (J1)</b>	<b>0°, -90° (J2, J3)</b>
QH10738-T	Tabs	Tabs

**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.

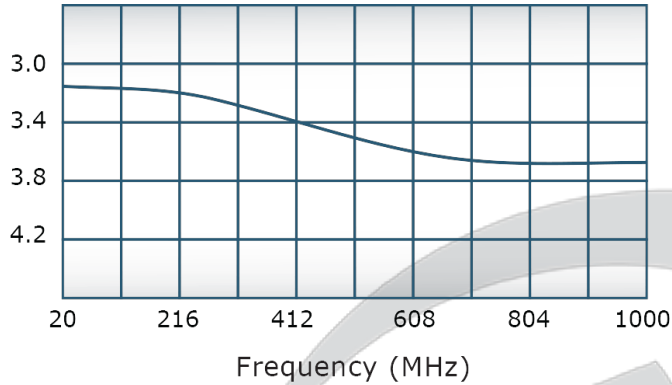
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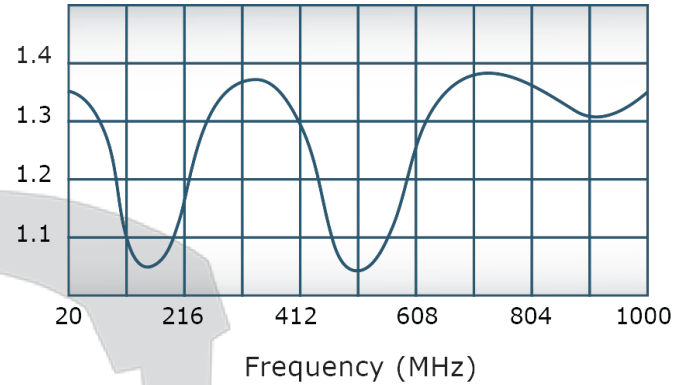


## Performance Data (Specifications subject to change without notice):

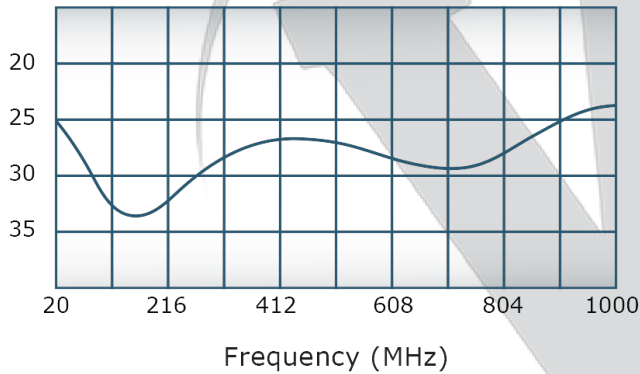
Coupling:



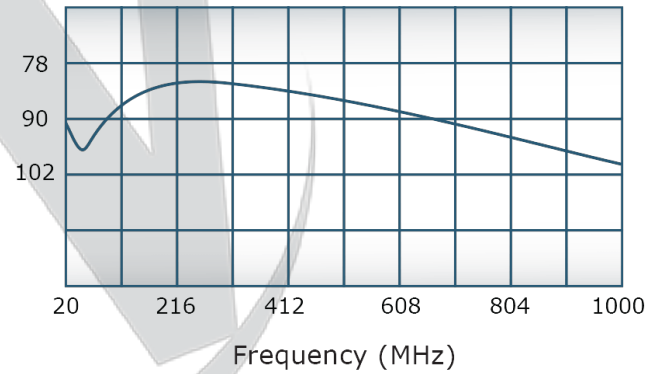
VSWR:



Isolation:



Phase Balance:



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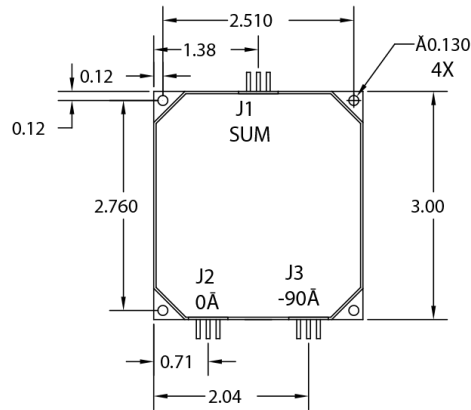
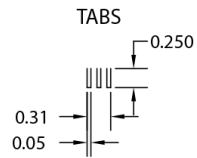
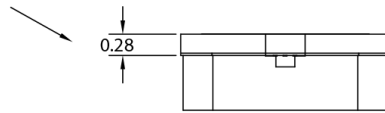
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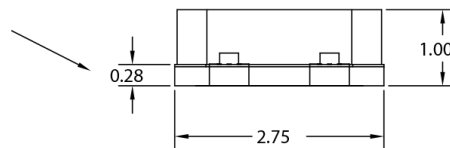
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DATE	SYM	REVISION RECORD	AUTH	DR	CK

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TOLERANCE	WERLATONE INC.			
XX +/- .015 XXX +/- .005	USED ON:	SCALE 1:1	DRAWN BY: PR	APPVD BY: CS
TITLE <b>OUTLINE</b>		DATE 5/26/16	DRAWING NUMBER 21388-501	

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