
**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.

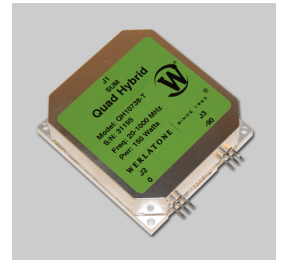
**Mechanical Specifications:**

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:**

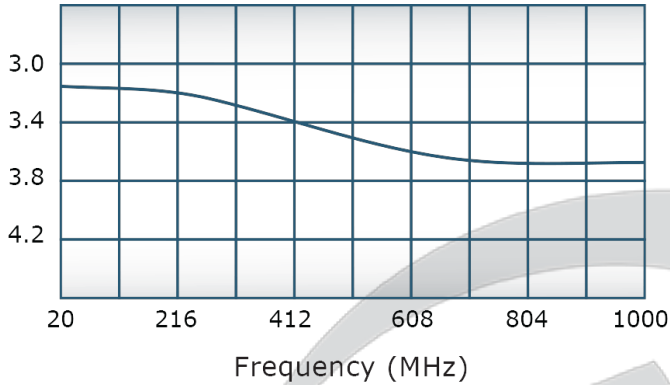
<b>Model</b>	<b>Sum Port (J1)</b>	<b>0°, -90° (J2, J3)</b>
QH10738-T	Tabs	Tabs

**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.

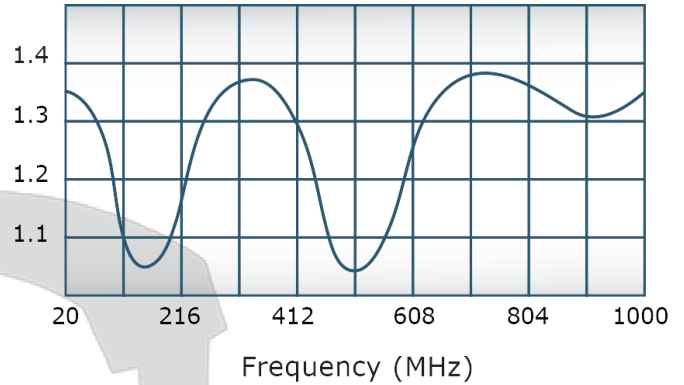


## Performance Data (Specifications subject to change without notice):

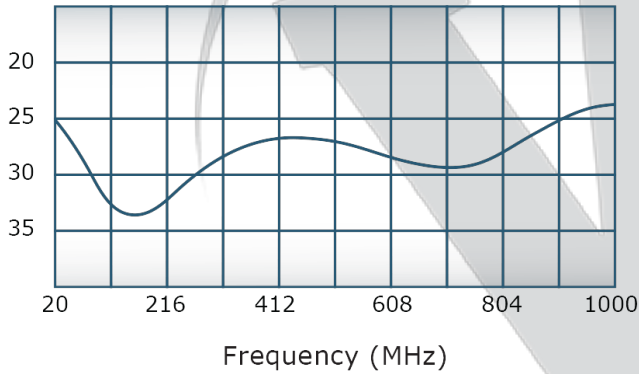
Coupling:



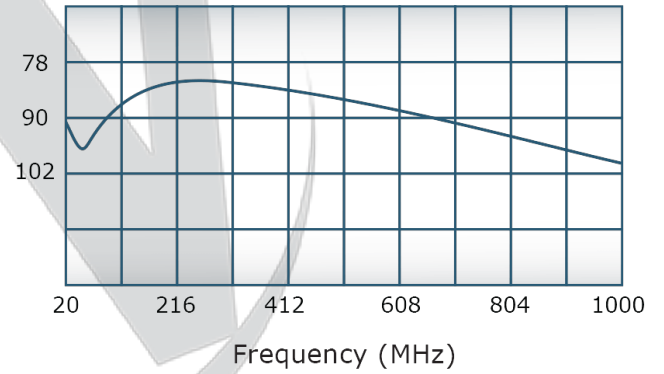
VSWR:



Isolation:



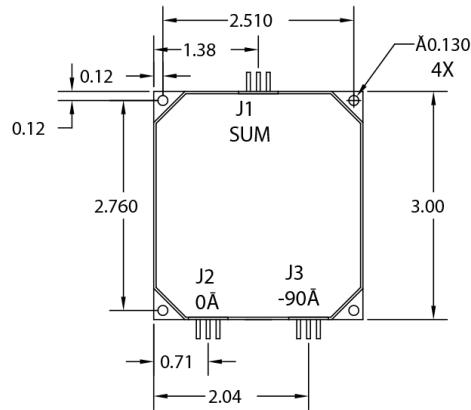
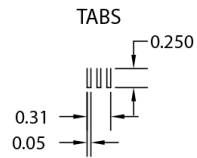
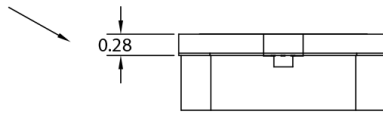
Phase Balance:



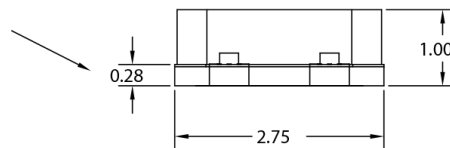
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DATE	SYM	REVISION RECORD	AUTH	DR	CK

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

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