

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: $\pm 12^\circ$ 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 $+75^\circ\text{C}$
Storage Temperature: -60°C to $+85^\circ\text{C}$
Size: 3.0 x 2.75 x 1.0"

Port Configurations:

Model	Sum Port (J1)	0°, -90° (J2, J3)
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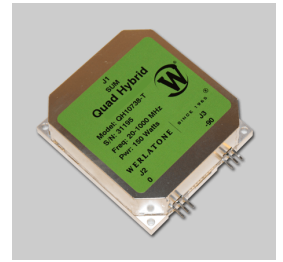
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.



WERLATONE

Model QH10738

90° Hybrids Surface Mount (SMT) & Drop

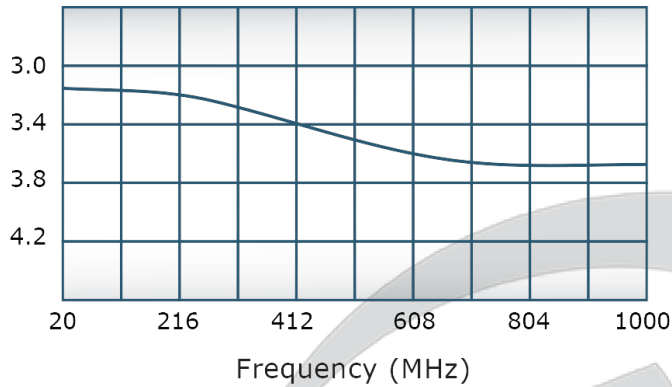


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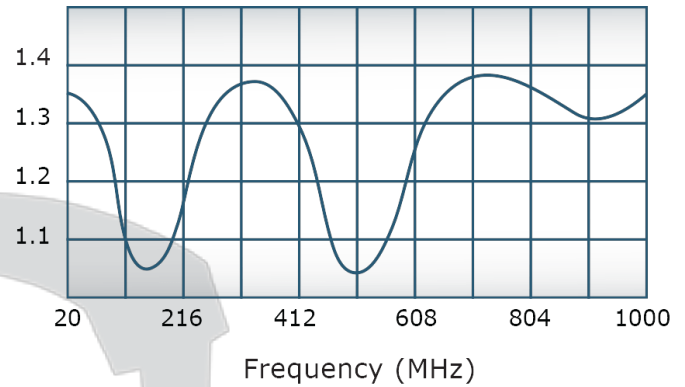
QH10738

Performance Data (Specifications subject to change without notice):

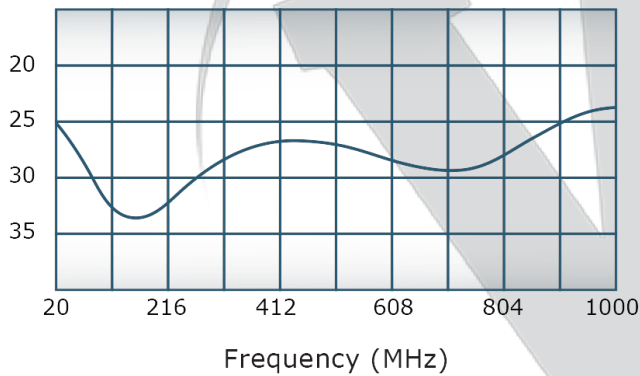
Coupling:



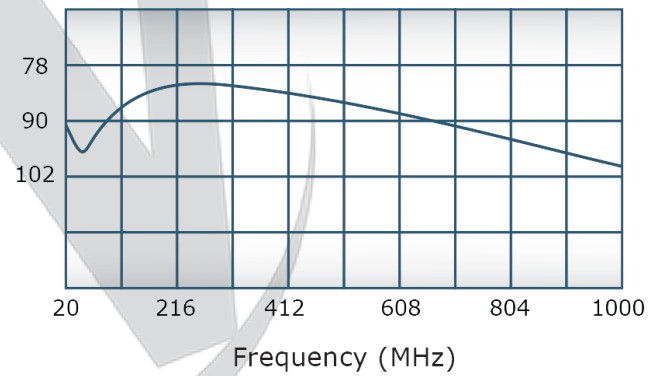
VSWR:



Isolation:



Phase Balance:



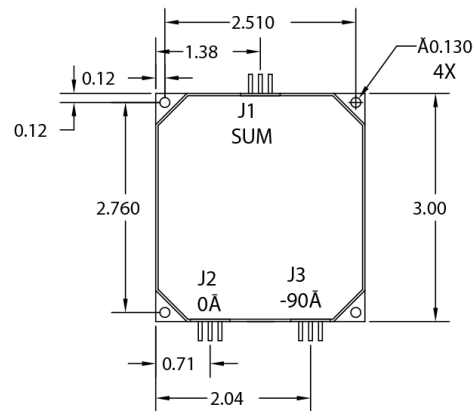
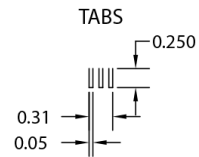
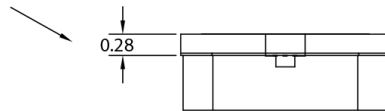
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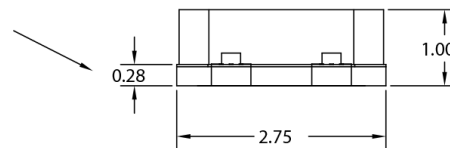
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XX +/- .015 XXX +/- .005	USED ON:	SCALE 1:1	DRAWN BY: PR APPVD BY: CS	
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	DATE 5/26/16	DRAWING NUMBER 21388-501		

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