

## PRODUCT DATA SHEET

QH10828

**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:	1000 - 8000 MHz
Power:	100 W CW
Insertion Loss	0.9 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.7 dB Max. (1200-8000 MHz) ± 1.5 dB Max. (1000-1200 MHz)
Isolation:	17 dB Min.

**Mechanical Specifications:**

Type:	Surface Mount
Plating Options:	QH10828-Pb: Electrodeposited Tin/Lead QH10828-Sn: Immersion Tin (RoHS Compliant) QH10828-Ag: Immersion Silver (RoHS Compliant)
Size:	0.65 x 0.5 x 0.07"

**Port Configurations:**

<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>
Input	3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Input	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Input	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Input

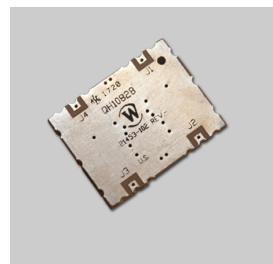
**Werlatone's** breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein 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 QH10828

90° Hybrids Surface Mount (SMT) & Drop

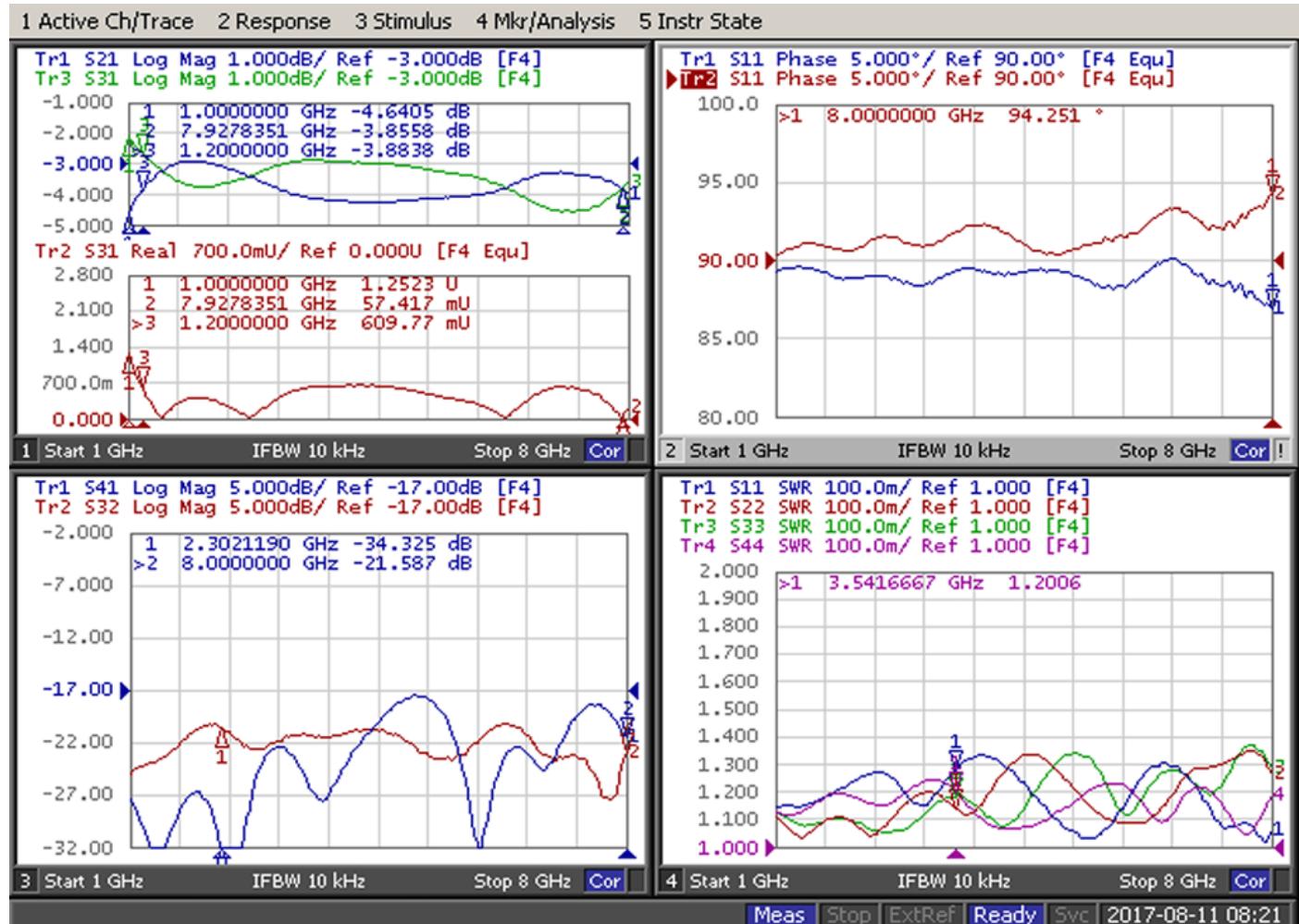


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**Performance Data (Specifications subject to change without notice):**

Plot 1: Coupling & Insertion Loss, Plot 2: Phase Balance, Plot 3: Isolation, Plot 4: VSWR



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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

