90° Hybrids Surface Mount (SMT) & Drop



PRODUCT DATA SHEET QH8193

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: 2000 - 6000 MHz

Power: 100 W CW

Insertion Loss 0.25 dB Max.

VSWR: 1.30:1 Max.

Phase Balance: ± 5° dB Max.

Amplitude Balance: 2.0 GHz: ± 0.9 dB Max.

4.0 GHz: \pm 0.75 dB Max. 6.0 GHz: \pm 0.75 dB Max.

Isolation: 20 dB Min.

Mechanical Specifications:

Type: Surface Mount

Plating Options: QH8193-Sn: Immersion Tin (RoHS)

QH8193-Ag: Immersion Silver (RoHS)

QH8193-Au: ENIG (RoHS)

QH8193-Pb: Electrodeposited Tin/Lead

Size: 0.85 x 0.33 x 0.14"

Weight: 1.5 grams

Port Configurations:

J1 J3 14 J2 -3 dB, 0° -3 dB. -90° Input Isolated -3 dB, 0° Isolated -3 dB, -90° Input -3 dB. -90° -3 dB, 0° Isolated Input 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.

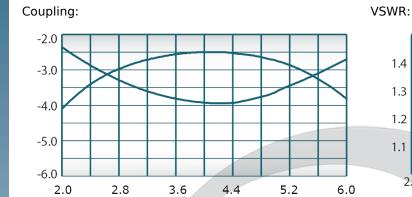
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Performance Data (Specifications subject to change without notice):

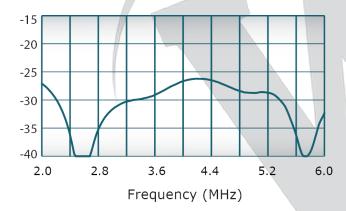


Frequency (MHz)

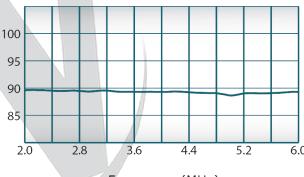


Frequency (MHz)

Isolation:

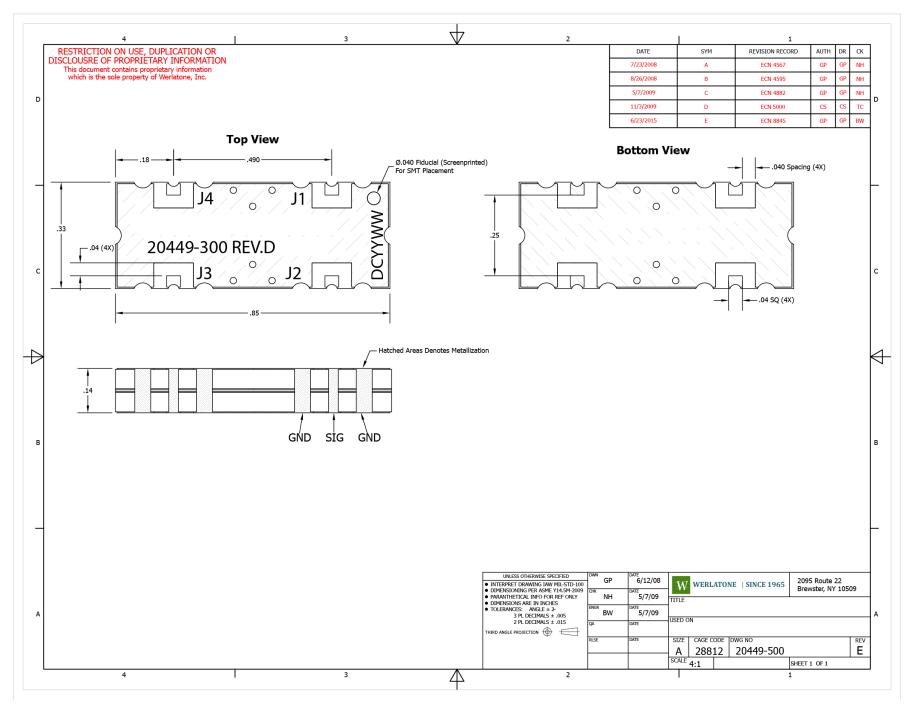


Phase Balance:



Frequency (MHz)

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