



PRODUCT DATA SHEET QH10541

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:
 700 - 6000 MHz

 Power:
 150 W CW

 Insertion Loss
 0.5 dB Max.

 VSWR:
 1.40:1 Max.

 Phase Balance:
 ± 5° dB Max.

Amplitude Balance: ± 1.5 dB Max. (700-900 MHz) ± 0.6 dB Max. (900-6000 MHz)

1 0.0 dB Max. (000 0000 M

Isolation: 17 dB Min.

Mechanical Specifications:

Type: Surface Mount

Plating Options: QH10541-Ag: Immersion Silver (RoHS)

Size: $0.66 \times 0.86 \times 0.09$ " Operating Temperature: -55°C to +75°C

Weight: 0.1 lb

Port Configurations:

J1 J2 J3 J4 Input -3 dB, 0° -3 dB, -90° Isolated -3 dB, 0° Input Isolated -3 dB, -90° -3 dB, -90° -3 dB, 0° Isolated Input Isolated -3 dB, -90° -3 dB, 0° Input

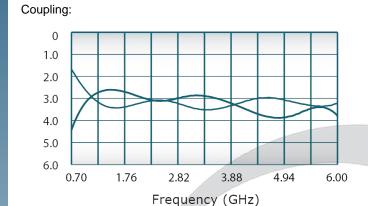
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the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

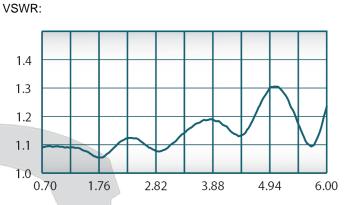




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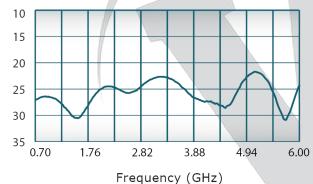
Performance Data (Specifications subject to change without notice):



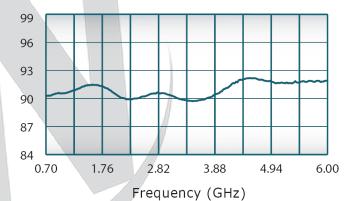


Frequency (GHz)

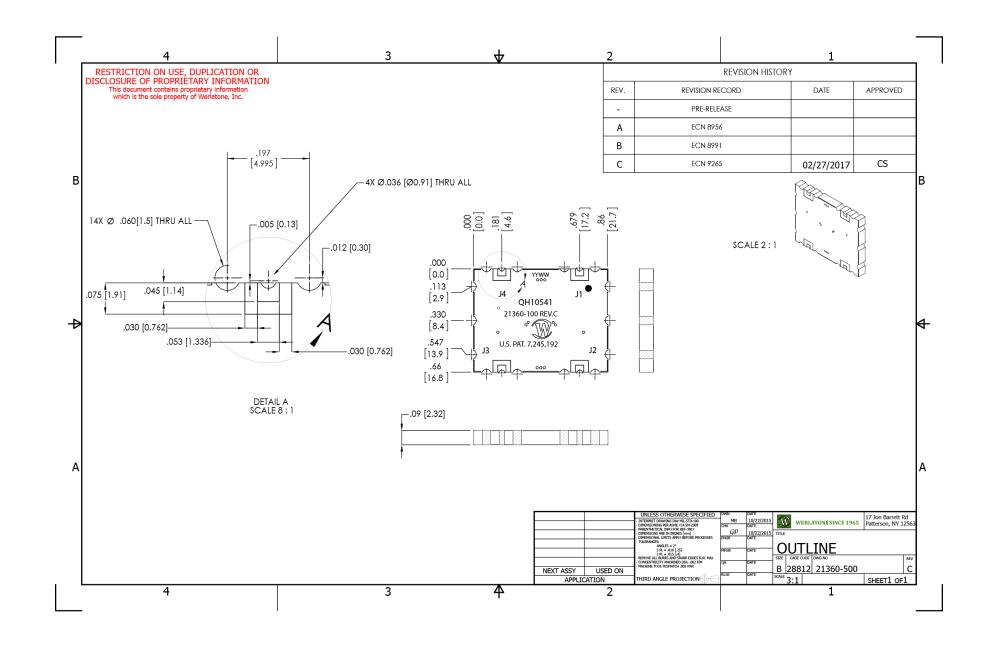
Isolation:



Phase Balance:



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