

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: $\pm 5^\circ$ dB Max.
 Amplitude Balance: ± 1.5 dB Max. (700-900 MHz)
 ± 0.6 dB Max. (900-6000 MHz)
 Isolation: 17 dB Min.

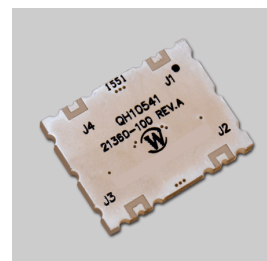
Mechanical Specifications:

Type: Surface Mount
 Plating Options: QH10541-Ag: Immersion Silver (RoHS)
 Size: 0.66 x 0.86 x 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°	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.

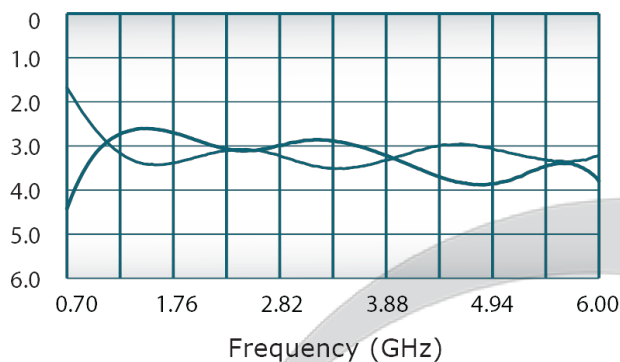


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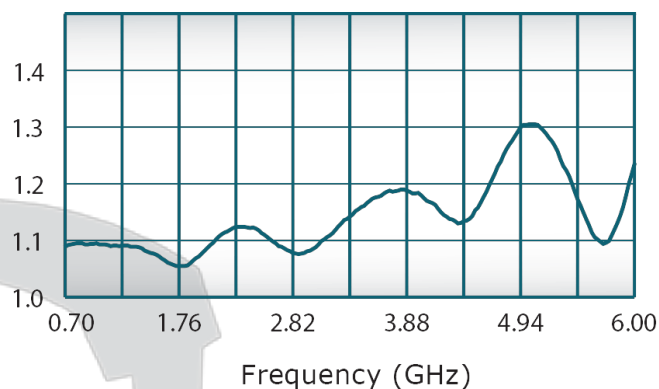
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Performance Data (Specifications subject to change without notice):

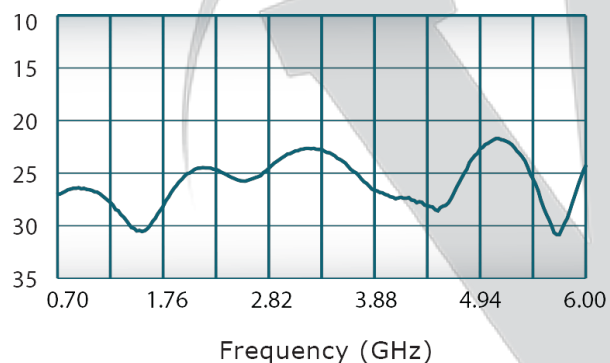
Coupling:



VSWR:



Isolation:



Phase Balance:

