

PRODUCT DATA SHEET QH11643

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 & Surface Mount

Electrical Specifications:

Frequency: 200 - 1000 MHz Power: 200 W CW Insertion Loss 0.4 dB Max. VSWR: 1.30:1 Max. Phase Balance: 90 $^{\circ}$ \pm 5 $^{\circ}$ dB Max. 4 dB Min. 18 dB Min.

Mechanical Specifications:

Type: Surface Mount

Plating Options: QH11643-Pb: Electrodeposited Tin/Lead

QH11643-Sn: Immersion Tin (RoHS Compliant) QH11643-Ag: Immersion Silver (RoHS Compliant)

Size: 2.8 x 0.75 x 0.16"

Port Configurations:

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

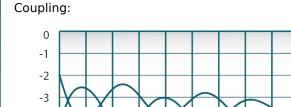
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Performance Data (Specifications subject to change without notice):



128

Frequency (MHz)

324

422

520

226

VSWR:

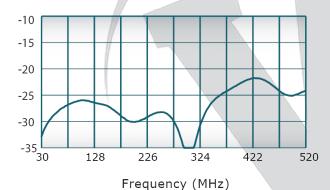


Frequency (MHz)

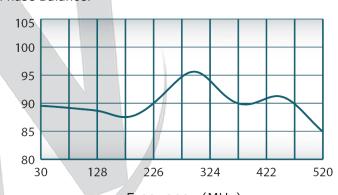
Isolation:

-4 -5

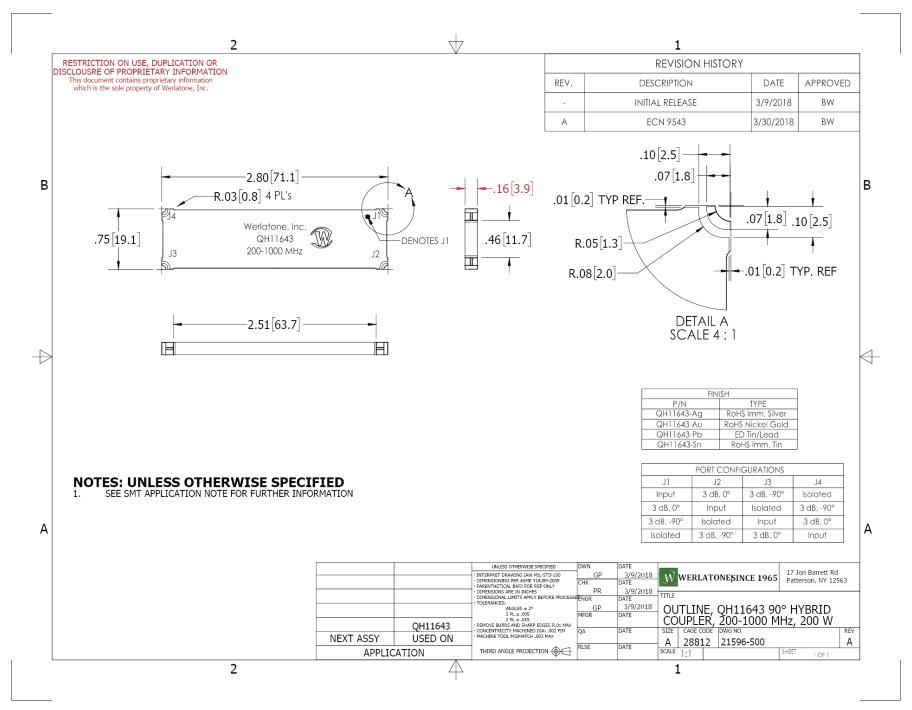
-6 L 30



Phase Balance:



Frequency (MHz)



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