



**DECADES AHEAD<sup>®</sup>**  
high power RF devices

**Werlatone<sup>®</sup>, Inc.**

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**90° Hybrid Coupler**  
**Model QH8849**

Frequency:	80 - 1000 MHz
Power:	250 W CW
Insertion Loss:	0.65 dB Max.
VSWR:	1.40:1 Max.
Isolation:	16 dB Min. (Ports J2 to J3) 18 dB Min. (Ports J1 to J4)
Phase Balance:	90° ± 5° Max.
Amplitude Balance:	1.0 dB Max.

**Notes**

- All specifications guaranteed
- Test data provided with each unit shipped
- Supplied as a Drop-In Unit or with Tabs
- Surface Finish Options: QH8849-Ag: Immersion Silver (RoHS)  
QH8849-Au: ENIG (RoHS)  
QH8849-Pb: Electrodeposited Tin/Lead

**Port Configurations**

	J1	J2	J3	J4
Sum (Σ)	-3 dB ∠θ	-3 dB ∠θ -90	Isolated (Δ)	Isolated (Δ)
-3 dB ∠θ	Sum (Σ)	Isolated (Δ)	-3 dB ∠θ -90	Isolated (Δ)
-3 dB ∠θ -90	Isolated (Δ)	Sum (Σ)	-3 dB ∠θ	Isolated (Δ)
Isolated (Δ)	-3 dB ∠θ -90	-3 dB ∠θ	Sum (Σ)	Isolated (Δ)

