

PRODUCT DATA SHEET

QH8849

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:	80 - 1000 MHz
Power:	250 W CW
Insertion Loss:	0.65 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	90° ± 5° dB Max.
Amplitude Balance:	± 1.0 dB Max.
Isolation:	16 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH8849-Ag: Immersion Silver (RoHS Compliant)
Weight:	2.7 oz.
Size:	2.9 x 2.1 x 0.31"

Port Configurations:

J1	J2	J3	J4
Sum	0°	90°	Isolated Port

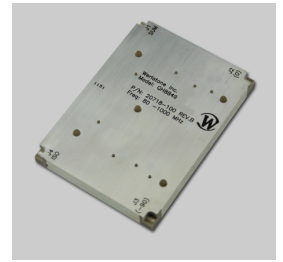
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the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



WERLATONE

Model QH8849

90° Hybrids Surface Mount (SMT) & Drop

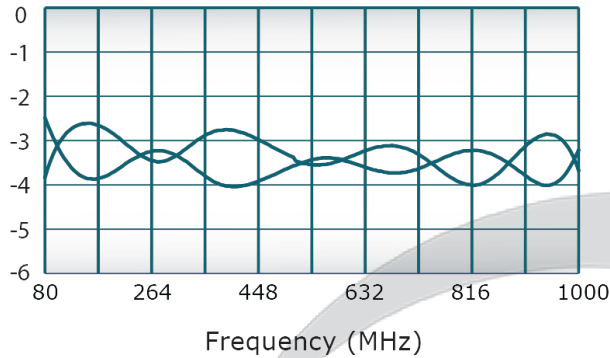


PRODUCT DATA SHEET

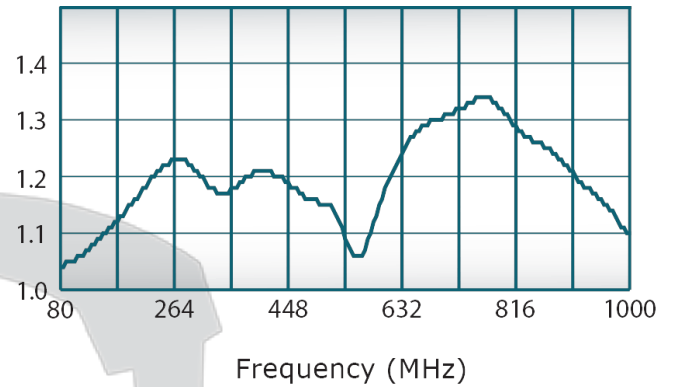
QH8849

Performance Data (Specifications subject to change without notice):

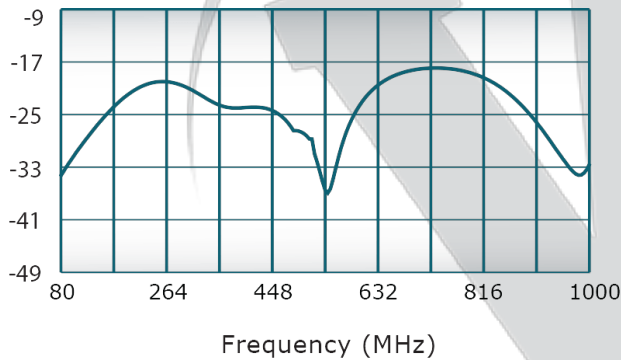
Coupling:



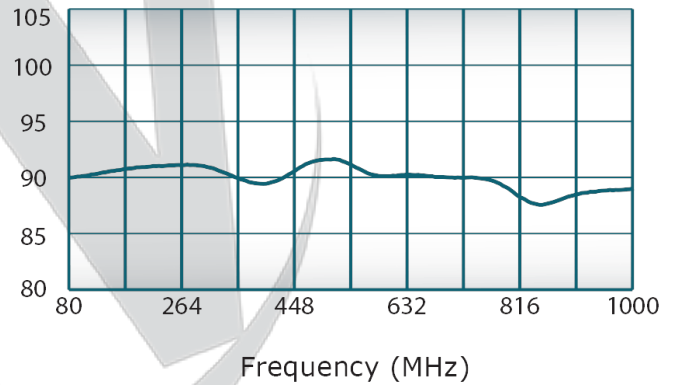
VSWR:



Isolation:



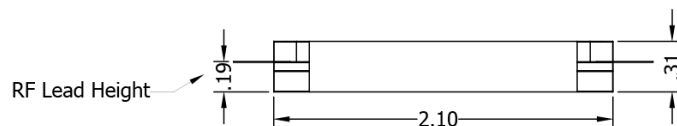
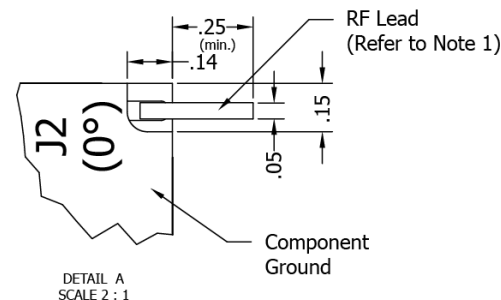
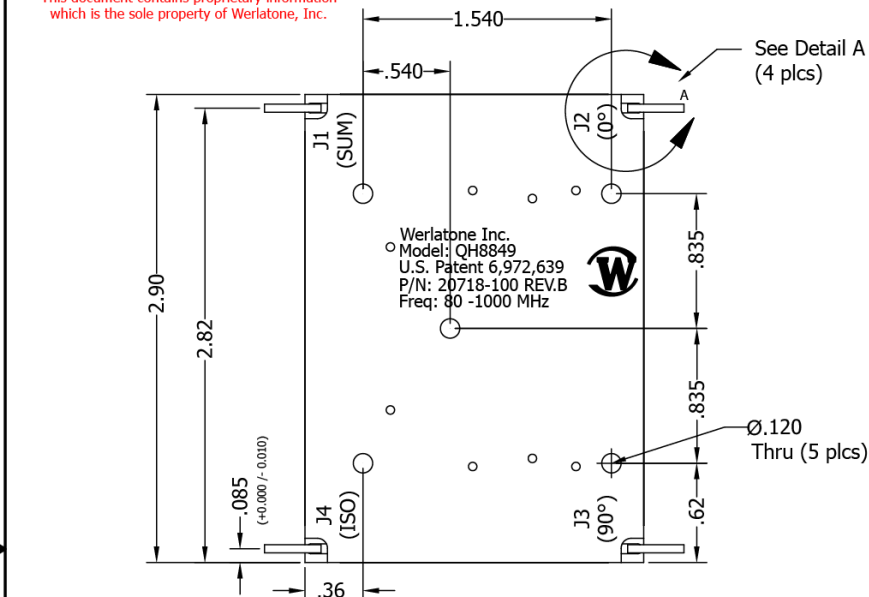
Phase Balance:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION
This document contains proprietary information which is the sole property of Werlatone, Inc.



ELECTRICAL SPECIFICATIONS

Frequency:	80 - 1000 MHz
Power:	250 Watts CW
Insertion Loss:	0.65 dB
Amplitude Balance:	± 1.0 dB
Phase Balance:	90° ± 5° Max.
VSWR:	1.4:1
Isolation:	16 dB Min.
Operating Temperature:	-55°C To +85°C

NOTES: UNLESS OTHERWISE SPECIFIED

- RF LEAD MATERIAL: 99.95% PURE SILVER. .005 THICK. LEAD IS RESISTANCE WELDED TO EXPOSED COPPER STRIPLINE TRACE.
- Component Surface Finish: Immersion Silver
- Non-Operating Storage Temperature -55C to +100 C

21396-300	QH8849-Ag-T
NEXT ASSY	USED ON
APPLICATION	

- UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100
 - DIMENSIONING PER ASME Y14.5M-2009
 - PARENTHESES ARE USED FOR REF ONLY
 - DIMENSIONS ARE IN INCHES
 - DIMENSIONAL LIMITS APPLY BEFORE FINISHES
 - TOLERANCES: ANGLES ± 2°
3 PL ± .005
2 PL ± .015

THIRD ANGLE PROJECTION

DWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
NH	01/18/16				
CHK	DATE				
GP	01/18/16				
ENGR	DATE				
BW	01/18/16				
MFGR	DATE				
QA	DATE	TITLE			
RLSE	DATE	Outline			
		SIZE	CAGE CODE	DWG NO	REV
		A	28812	21396-500	-
		SCALE 1:1		SHEET 1 OF 1	

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com