WERLATONE

Model QH8849
90° Hybrids Surface Mount (SMT) & Drop



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.

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

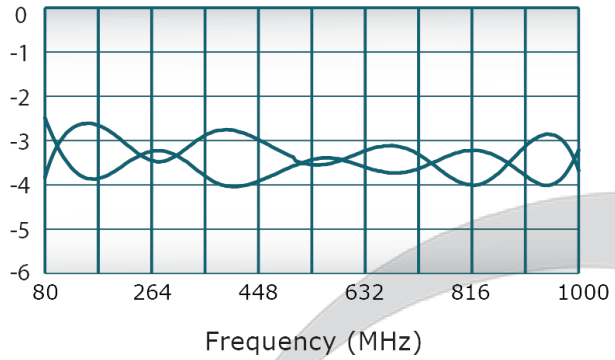
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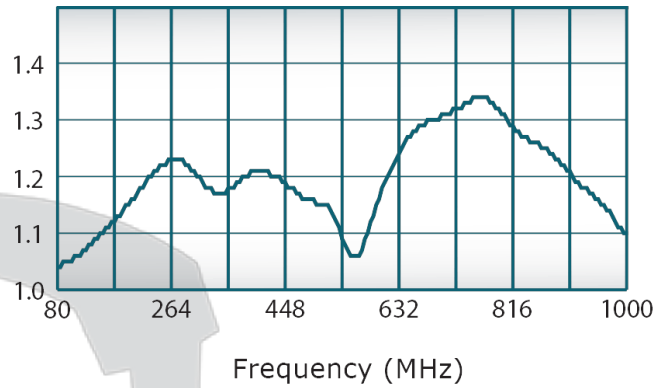
PRODUCT DATA SHEET **QH8849**

Performance Data (Specifications subject to change without notice):

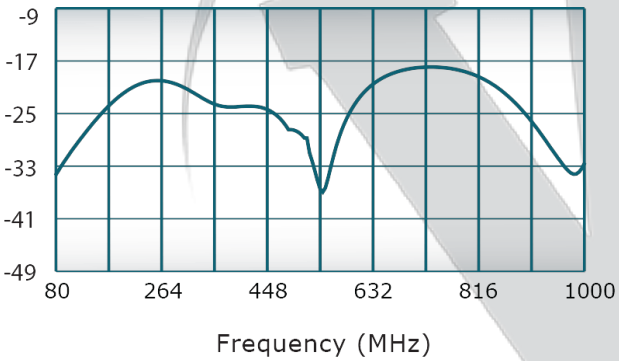
Coupling:



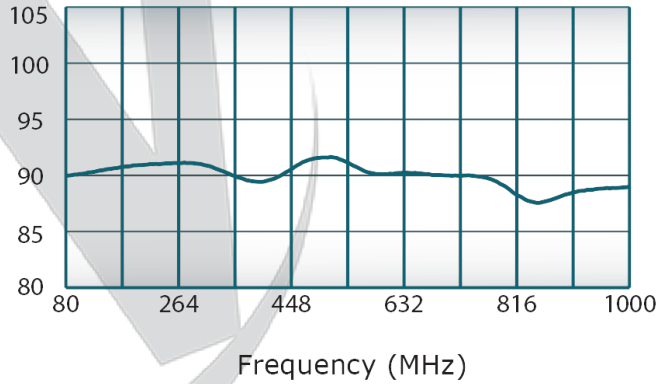
VSWR:



Isolation:



Phase Balance:

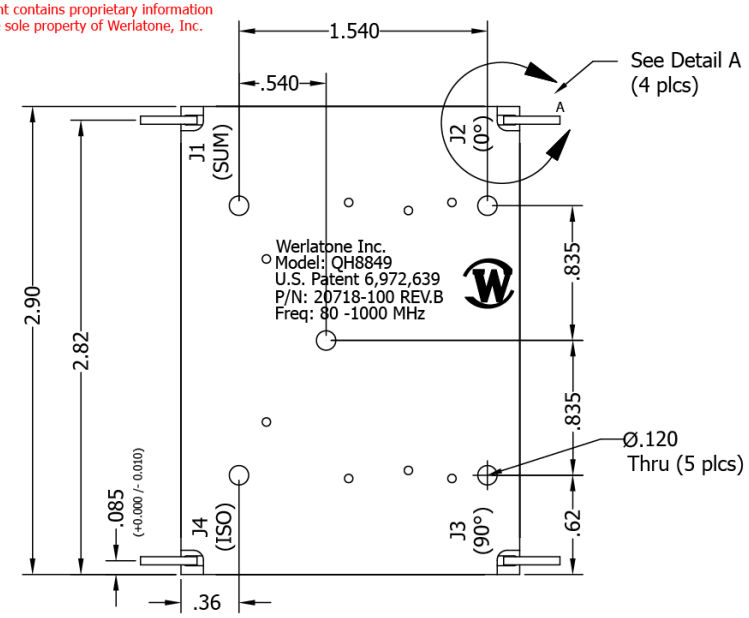


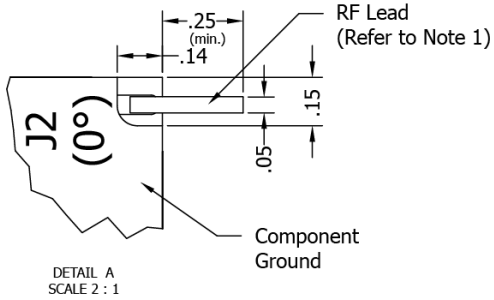
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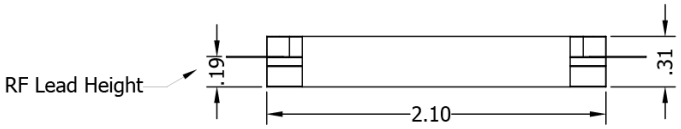
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	1/18/2016	BW





DETAIL A
SCALE 2 : 1



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

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

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

UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARENTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- TOLERANCES: ANGLES ± 2-
  3 PL ± .005
  2 PL ± .015

THIRD ANGLE PROJECTION

DWN	NH	DATE 01/18/16
CHK	GP	DATE 01/18/16
ENGR	BW	DATE 01/18/16
MFGR		DATE
QA		DATE
RLSE		DATE

WERLATONE | SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE: Outline

SIZE	CAGE CODE	DWG NO	REV
A	28812	21396-500	-

SCALE 1:1 SHEET 1 OF 1

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