


**PRODUCT DATA SHEET**
**QH7774**
**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 &amp; Surface Mount

**Electrical Specifications:**

Frequency:	100 - 1000 MHz
Power:	50 W CW
Insertion Loss:	0.6 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 5° Max.
Amplitude Balance:	± 1.0 dB Max.
Isolation:	20 dB Min.

**Mechanical Specifications:**

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Weight:	1 lb.
Size:	5.1 x 2.1 x 1.1"

**Connector Configurations:**

Model	Sum Port (J1)	Inputs (J2,J3)	Ext. Load Port
QH7774-10	N Female	N Female	N Female
QH7774-12	N Female	SMA	SMA
QH7774-102	SMA	SMA	SMA

**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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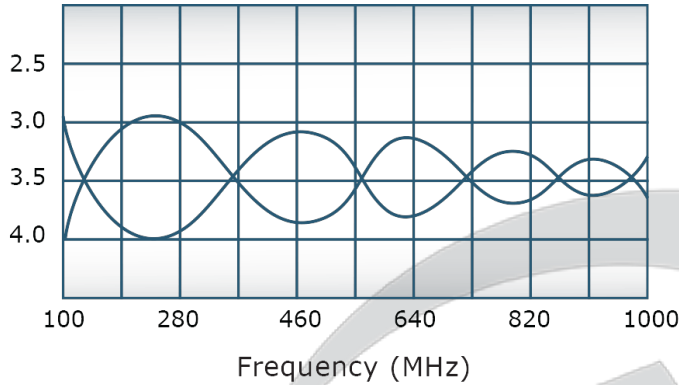


## PRODUCT DATA SHEET

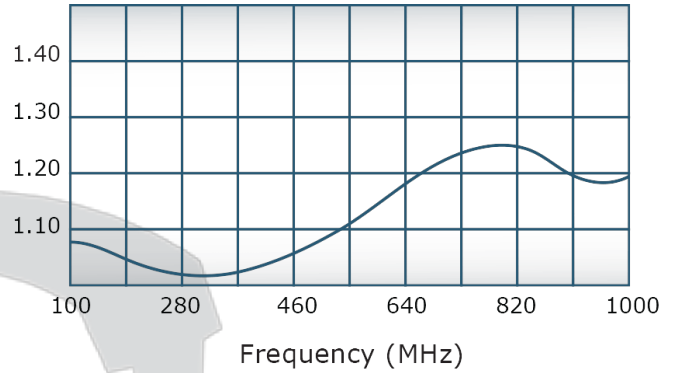
QH7774

### Performance Data (Specifications subject to change without notice):

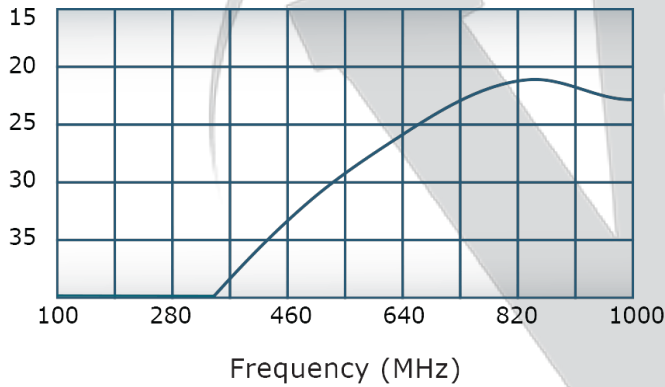
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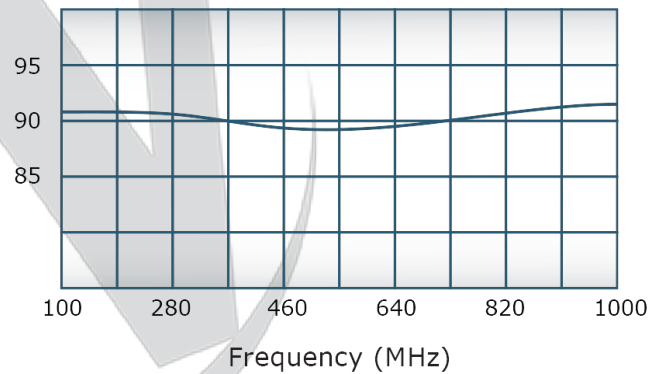
VSWR:



Isolation:



Phase Balance:



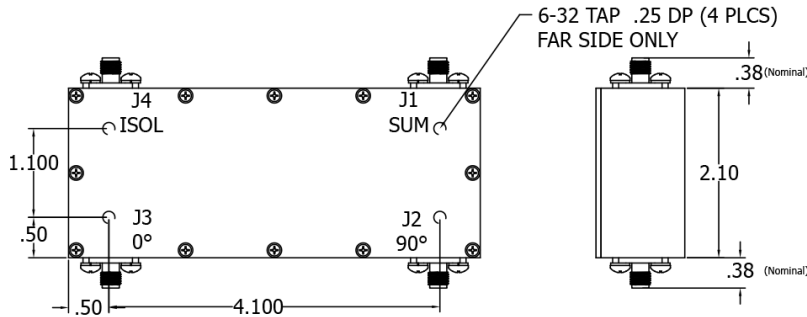
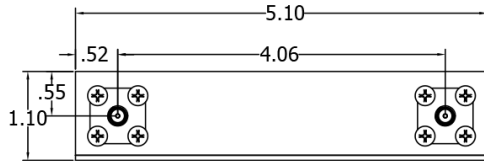
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RLS	6/14/2016	CS



20214-300	QH774-102
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED  
 • INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100  
 • DIMENSIONING PER ASME Y14.5M-2009  
 • PARENTHESES 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	DATE	WERLATONE   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
NH	06/14/16				
CHK	DATE	<b>Outline</b>			
CS	06/14/16				
ENGR	DATE				
BW	06/14/16				
MFGR	DATE	SIZE	CAGE CODE	DWG NO	REV
QA	DATE	A	28812	20214-501	-
RLSE	DATE	SCALE	1:2		SHEET 1 OF 1

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