



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 & 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: $90^\circ \pm 5^\circ$ 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.

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



WERLATONE

Model QH7774

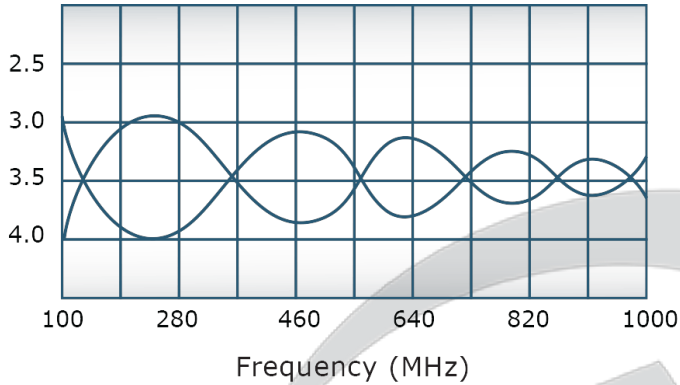


PRODUCT DATA SHEET

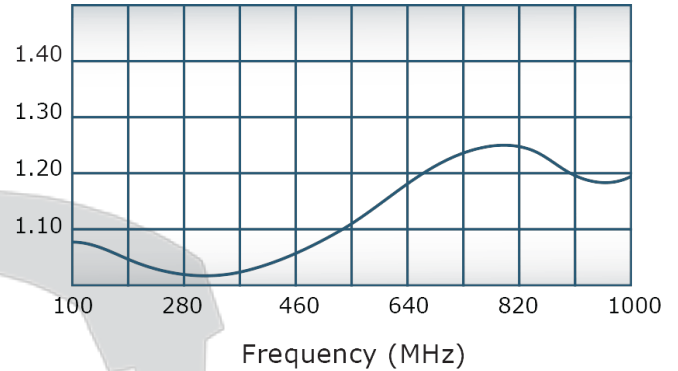
QH7774

Performance Data (Specifications subject to change without notice):

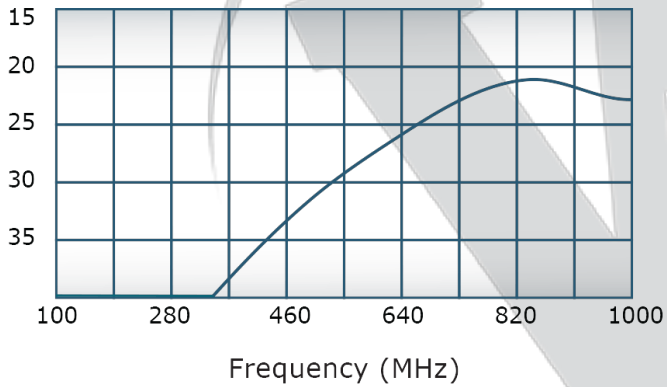
Coupling:



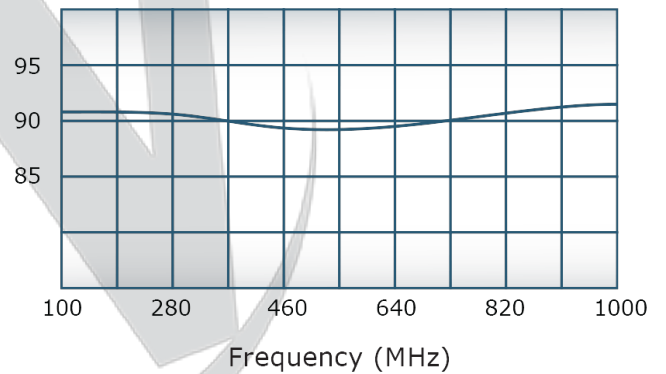
VSWR:



Isolation:



Phase Balance:

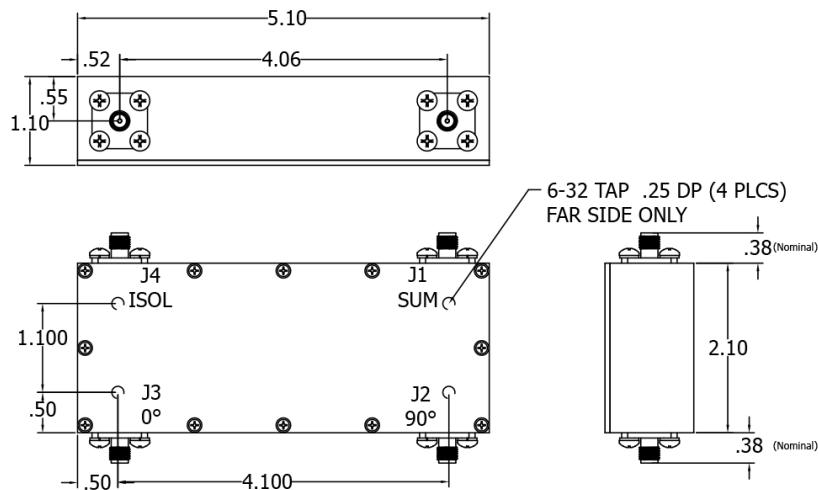


Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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.


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



20214-300	QH7774-102
NEXT ASSY	USED ON
APPLICATION	

- UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100
 - DIMENSIONING PER ASME Y14.5M-2009
 - PARENTHESES 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	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
NH	06/14/16				
CHK	DATE				
CS	06/14/16				
ENGR	DATE				
BW	06/14/16	TITLE			
MFGR	DATE	<h1>Outline</h1>			
QA	DATE				
RLSE	DATE				
		SIZE	CAGE CODE	DWG NO	REV
		A	28812	20214-501	-
		SCALE	1:2	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