

PRODUCT DATA SHEET

QH11015

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: 20-1000 MHz
 Power: 300 W CW
 Insertion Loss: 0.8 dB Max.
 VSWR: 1.45:1 Max.
 Phase Balance: 90° ± 10° Max.
 Amplitude Balance: ± 0.25 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
 Size: 4.10 x 3.10 x 1.25"

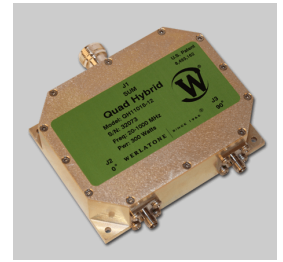
Connector Configurations:

Model	Sum Port (J1)	Inputs (J2,J3)	Ext. Load Port
QH11015-10	N Female	N Female	Not Applicable
QH11015-12	N Female	SMA	Not Applicable

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.

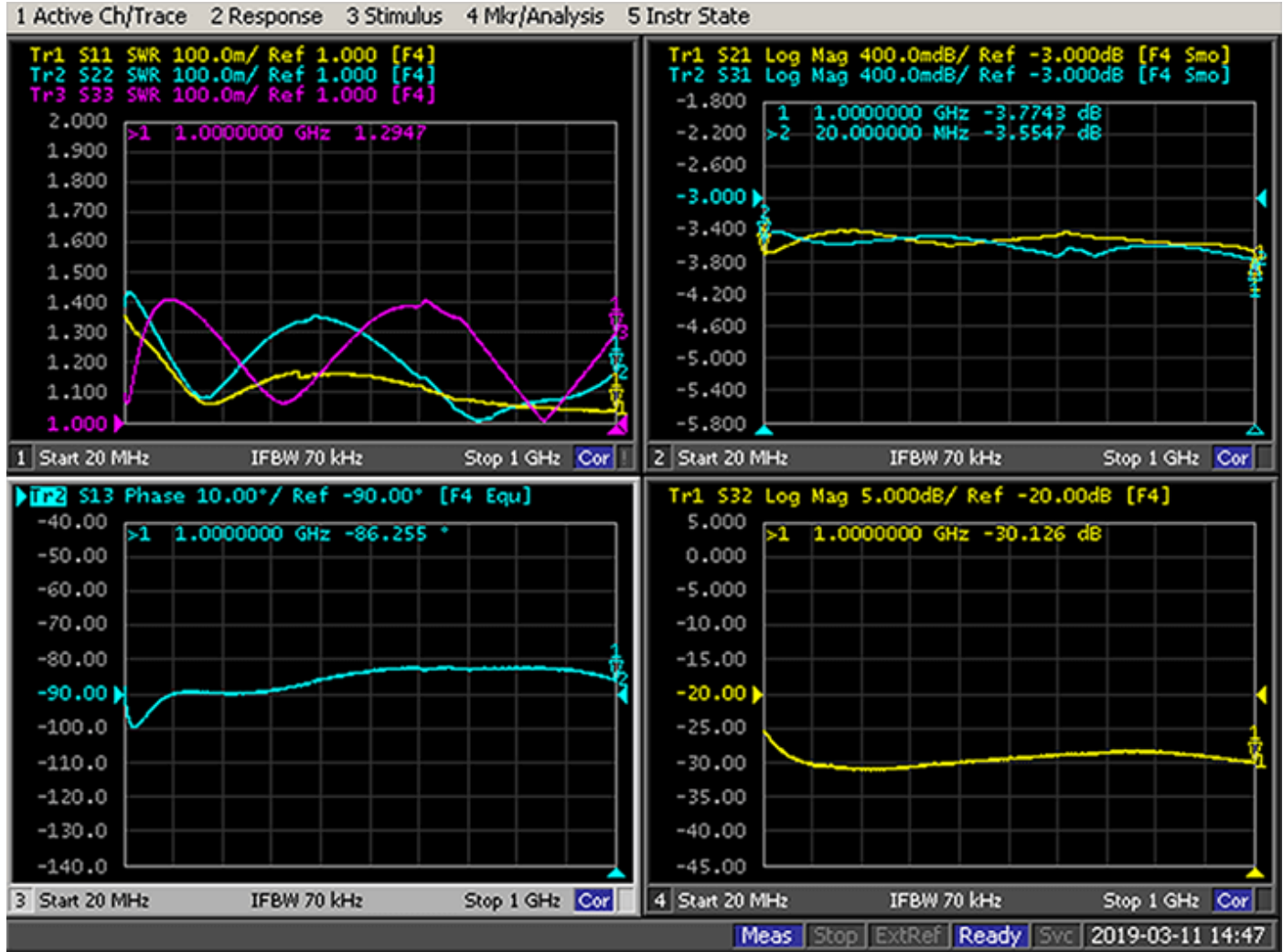
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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



Performance Data (Specifications subject to change without notice):

Graph 1: VSWR, Graph 2: Coupling, Graph 3: Phase Balance, Graph 4: Isolation



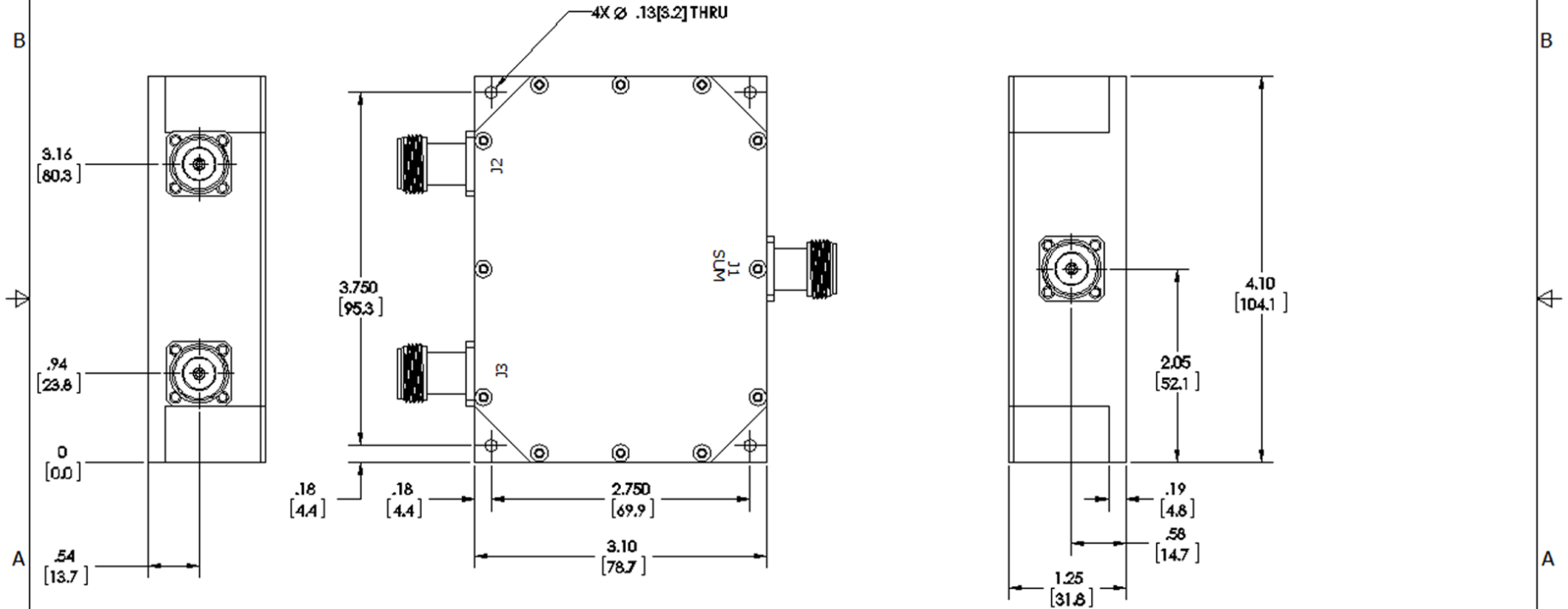
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

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 RELEASE	2/2/2017	PR



- NOTES: UNLESS OTHERWISE NOTED**
- ALUMINUM 6061-T6
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
 - CONNECTORS: N (FEMALE)

UNLESS OTHERWISE SPECIFIED		DATE	2/2/2017	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
DESIGN	[REDACTED]	DATE		
CHKD	[REDACTED]	DATE		TITLE
ENGR	[REDACTED]	DATE		OUTLINE
APPV	[REDACTED]	DATE		SIZE
QA	[REDACTED]	DATE		B 28812 21505-500
APPV	[REDACTED]	DATE		SCALE
APPLICATION	CH11015-10 USED ON	THIRD ANGLE PROJECTION		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