



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: $90^\circ \pm 10^\circ$ Max.
 Amplitude Balance: ± 0.25 dB Max.
 Isolation: 20 dB Min.

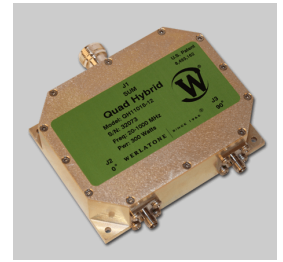
Mechanical Specifications:

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.

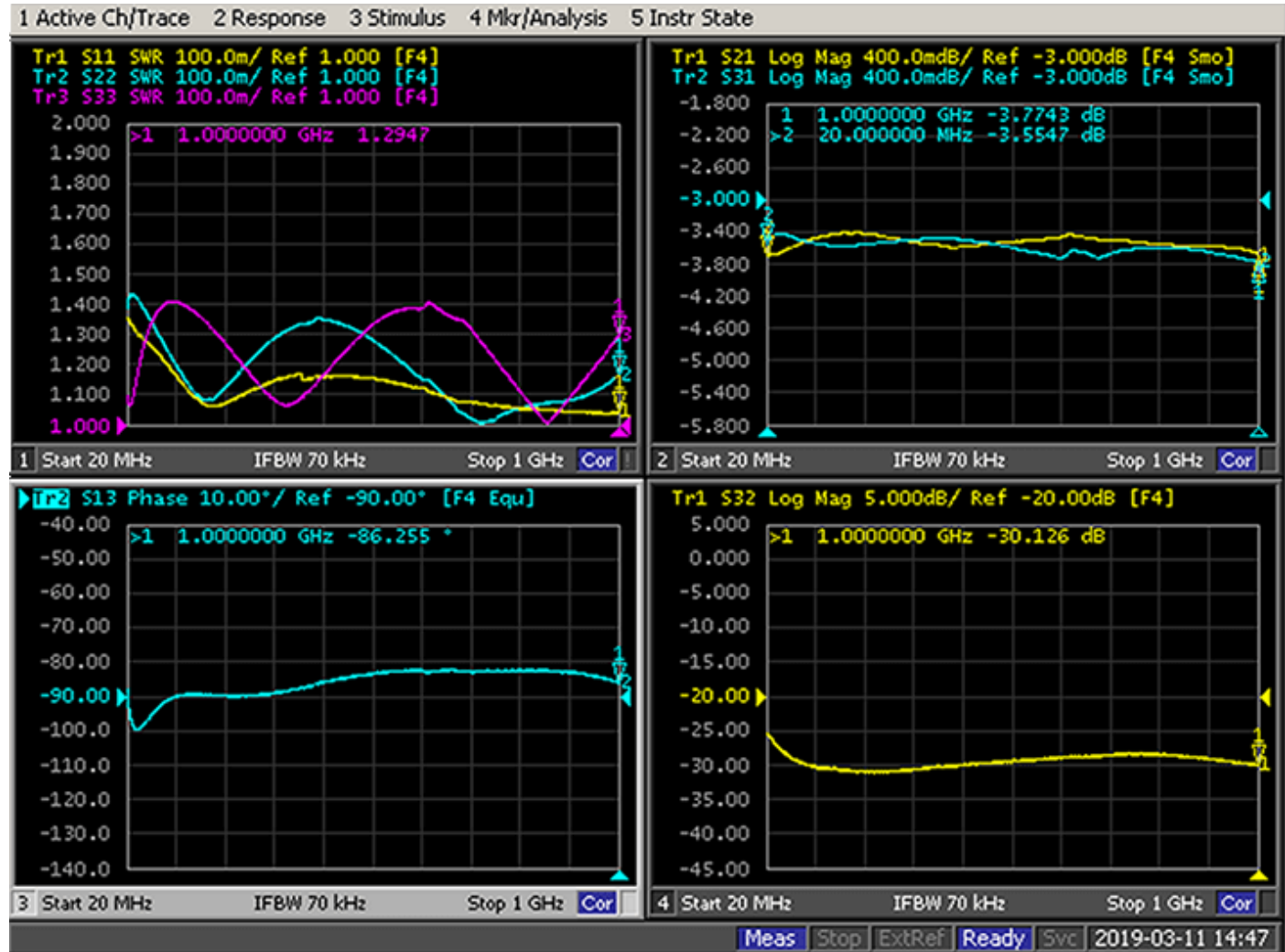


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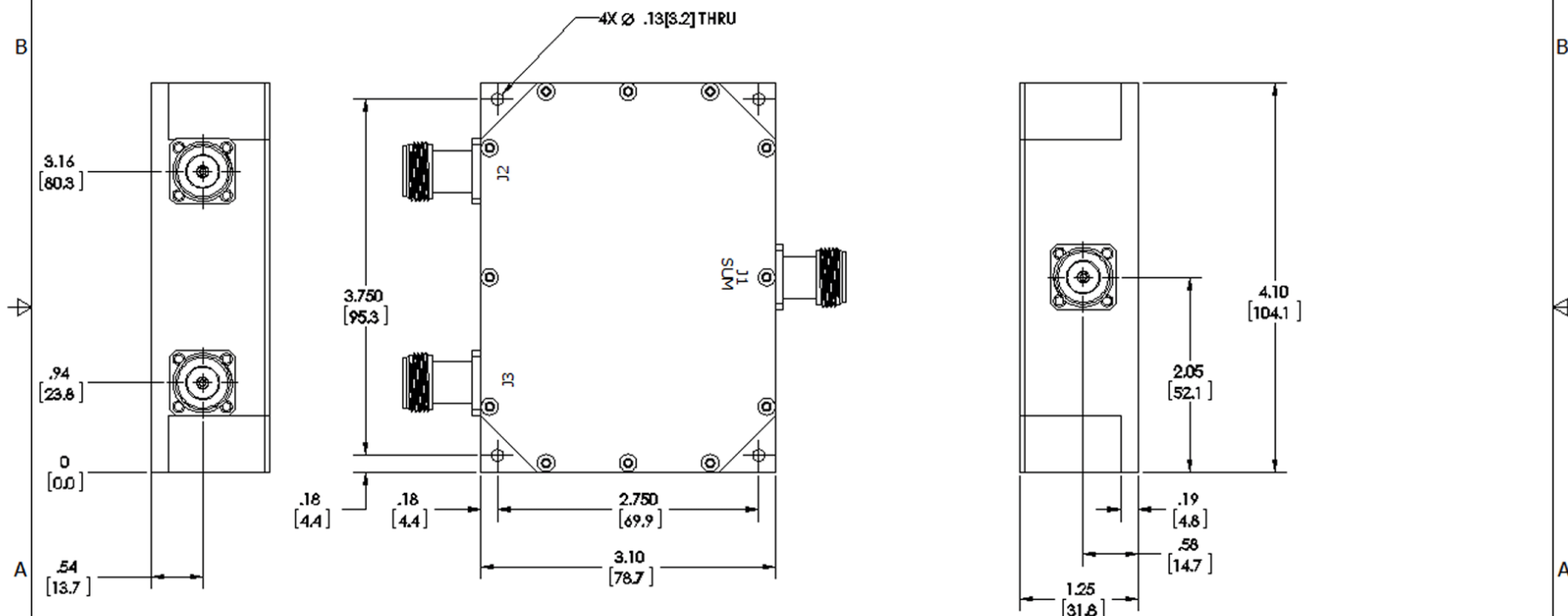
Performance Data (Specifications subject to change without notice):

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



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/2/2017	PR



NOTES: UNLESS OTHERWISE NOTED

1. ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS: N (FEMALE)

UNLESS OTHERWISE SPECIFIED		DATE	2/2/2017
DESIGN	DATE	2/2/2017	
CHK	DATE	2/2/2017	
APP	DATE	2/2/2017	
DESIGN	DATE	2/2/2017	
CHK	DATE	2/2/2017	
APP	DATE	2/2/2017	
DESIGN	DATE	2/2/2017	
CHK	DATE	2/2/2017	
APP	DATE	2/2/2017	
NEXT ASSY USED ON		DATE	2/2/2017
APPLICATION		DATE	2/2/2017
THIRD ANGLE PROJECTION		DATE	2/2/2017
TITLE		DATE	2/2/2017
OUTLINE		DATE	2/2/2017
SIZE		DATE	2/2/2017
B 28812		DATE	2/2/2017
21505-500		DATE	2/2/2017
SCALE		DATE	2/2/2017
1:1		DATE	2/2/2017
SHEET 1 OF 1		DATE	2/2/2017

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