

## 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:  $\pm 0.25$  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:  $-55^\circ\text{C}$  to  $+75^\circ\text{C}$   
Storage Temperature:  $-60^\circ\text{C}$  to  $+85^\circ\text{C}$   
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

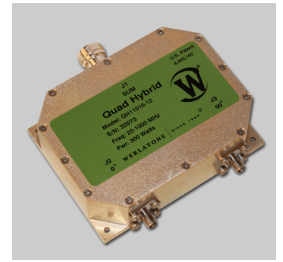
**Werlatone's** breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors.



# WERLATONE

Model QH11015

90° Hybrids Connectorized

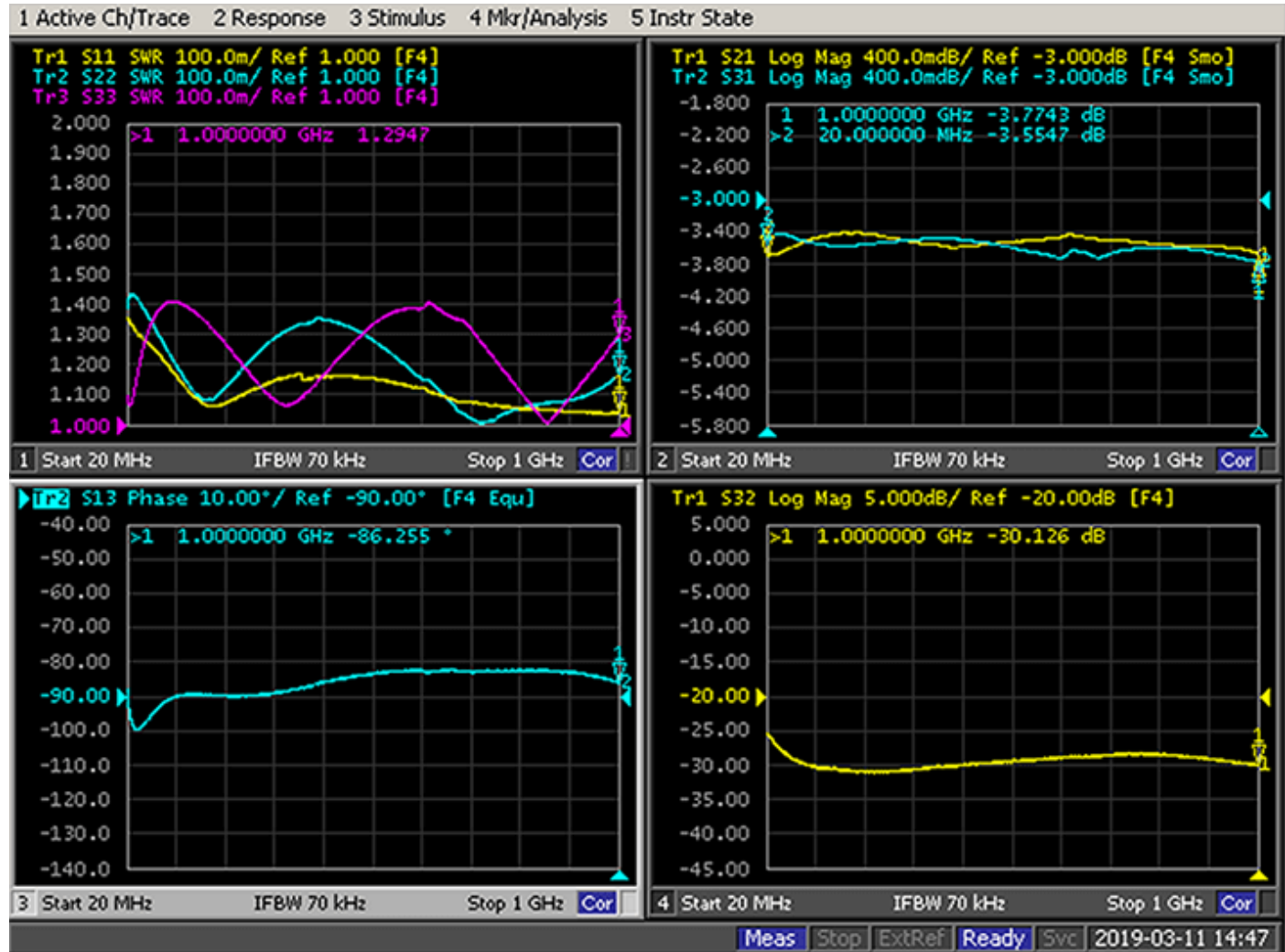


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### Performance Data (Specifications subject to change without notice):

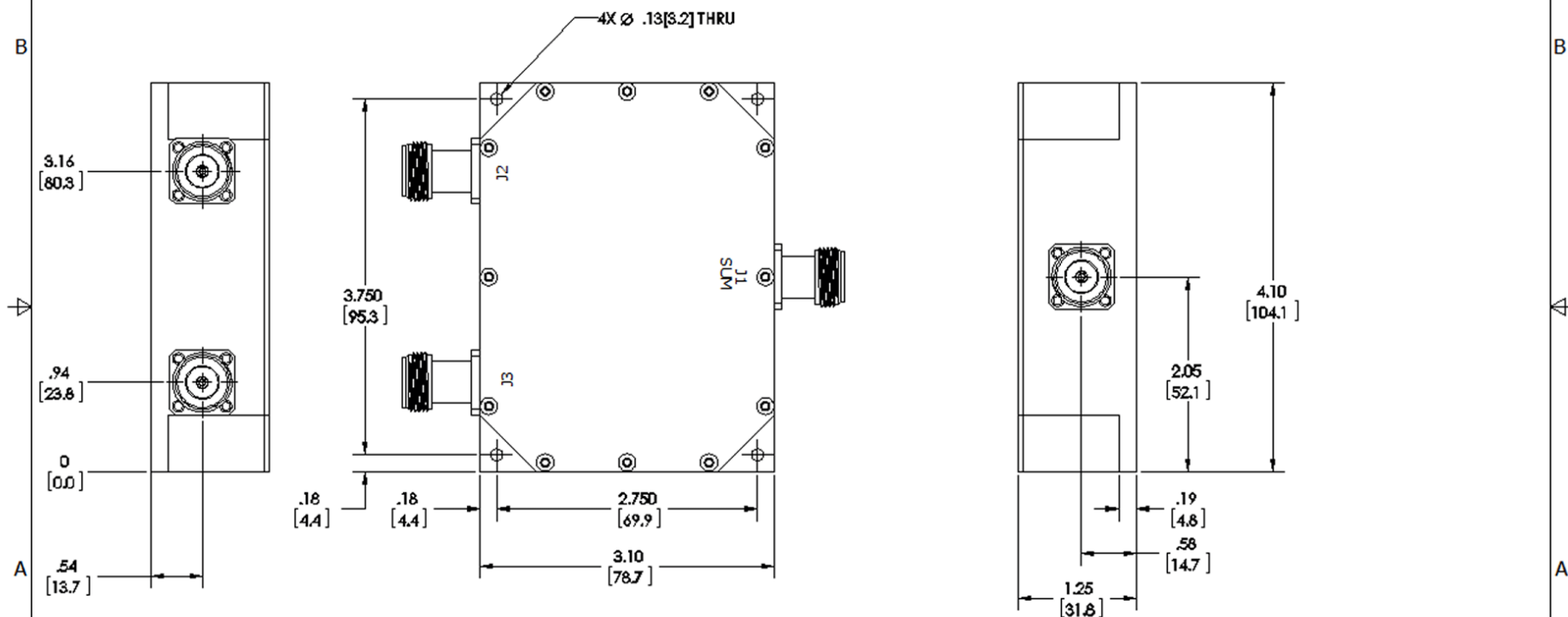
Graph 1: VSWR, Graph 2: Coupling, Graph 3: Phase Balance, Graph 4: Isolation



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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	 <b>WERLATONE SINCE 1965</b>		17 Jon Barrett Rd Patterson, NY 12563	
				PLP	DATE	TITLE		
				CHK	DATE			
				PR	DATE			
				ENGR	DATE			
				ISDR	DATE			
				QA	DATE			
				BLUE	DATE			
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USED ON				B		28812		21505-500
APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1