



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.

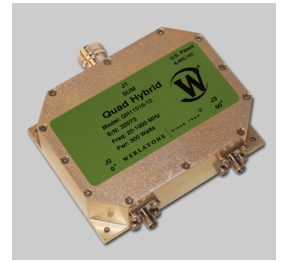
Mechanical Specifications:

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.

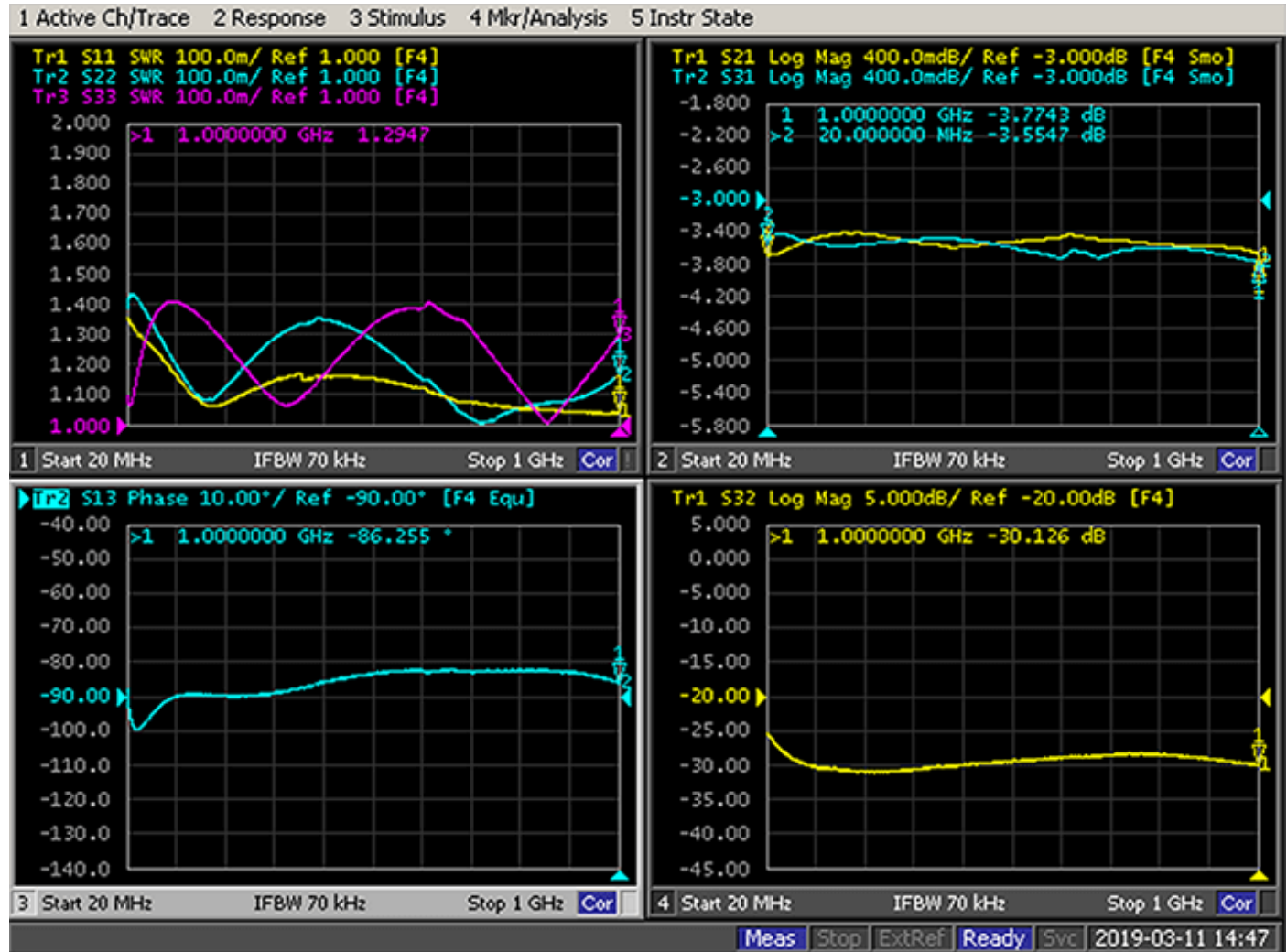


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Performance Data (Specifications subject to change without notice):

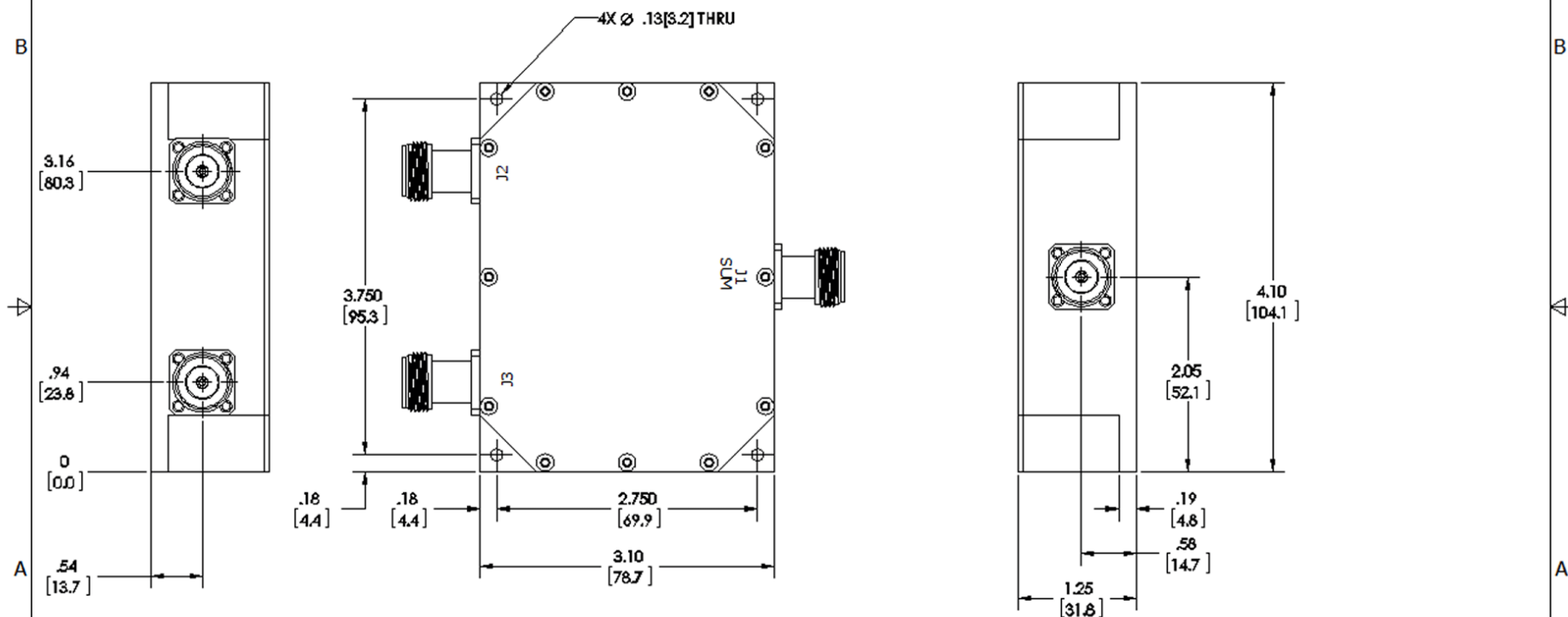
Graph 1: VSWR, Graph 2: Coupling, Graph 3: Phase Balance, Graph 4: Isolation



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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 |  WERLATONE SINCE 1965 | | 17 Jon Barrett Rd Patterson, NY 12563 | |
| | |  | | PLP | DATE | TITLE | | |
| | |  | | CHK | DATE | | | |
| | |  | | PR | DATE | | | |
| | |  | | ENGR | DATE | | | |
| | |  | | ISDR | DATE | | | |
| | |  | | QA | DATE | | | |
| | |  | | BLUE | DATE | | | |
| NEXT ASSY | | CH11015-10 | | SIZE | | PAGE CODE | | REV |
| USED ON | | | | B | | 28812 | | 21505-500 |
| APPLICATION | | THIRD ANGLE PROJECTION  | | SCALE | | 1:1 | | SHEET 1 OF 1 |