WERLATONE

Model D5816



**PRODUCT DATA SHEET** **D5816**

**Werlatone®** ***Mismatch Tolerant®*** High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

**Features:**

High Power | Wide Bandwidths | Small Size | High Isolation | Custom Designs Available

**Electrical Specifications:**

| | |
|---|---|
| Frequency: | 20 - 500 MHz |
| Power: | 200 W CW |
| Insertion Loss: | 0.5 dB Max. |
| VSWR: | 1.35:1 Max. |
| Phase Balance: | ± 5° 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 |
| Weight: | 2.5 lbs. |
| Size: | 5.0 x 5.1 x 1.5'' |

**Connector Configurations:**

| **Model** | **Sum Port (J5)** | **Input/Output (J1-J4)** |
|---|---|---|
| D5816-10 | N Female | N Female |
| D5816-12 | N Female | SMA Female |
| D5816-13 | N Female | BNC Female |
| D5816-102 | SMA | SMA |

**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.

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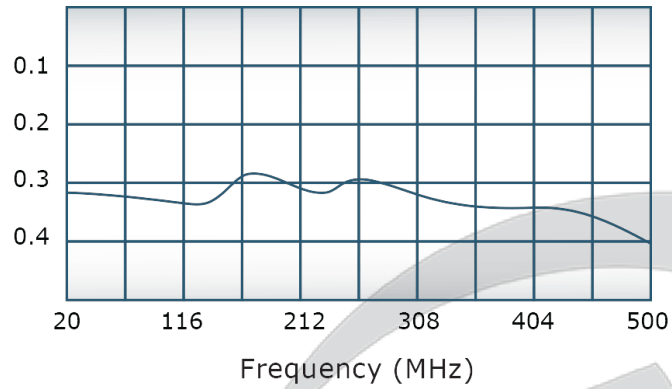
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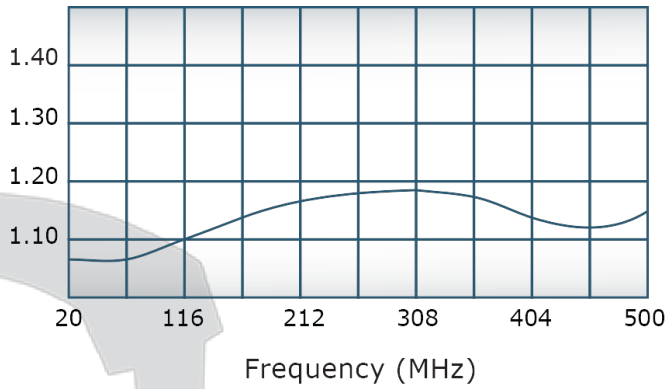


## Performance Data (Specifications subject to change without notice):

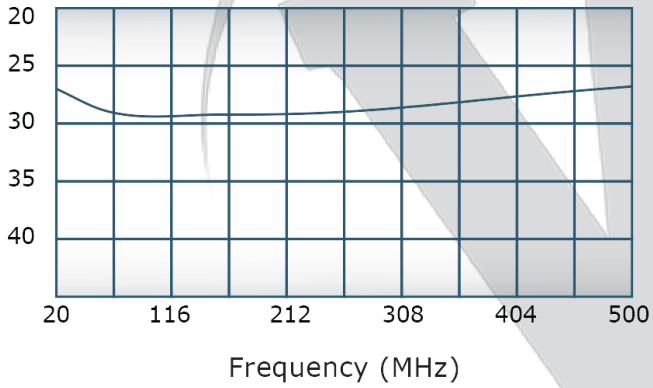
Insertion Loss:



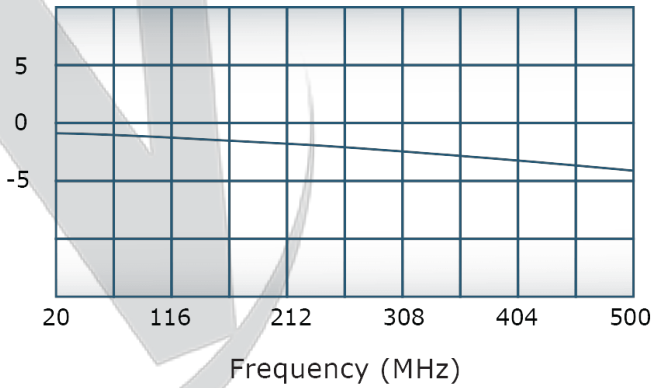

VSWR:




Isolation:



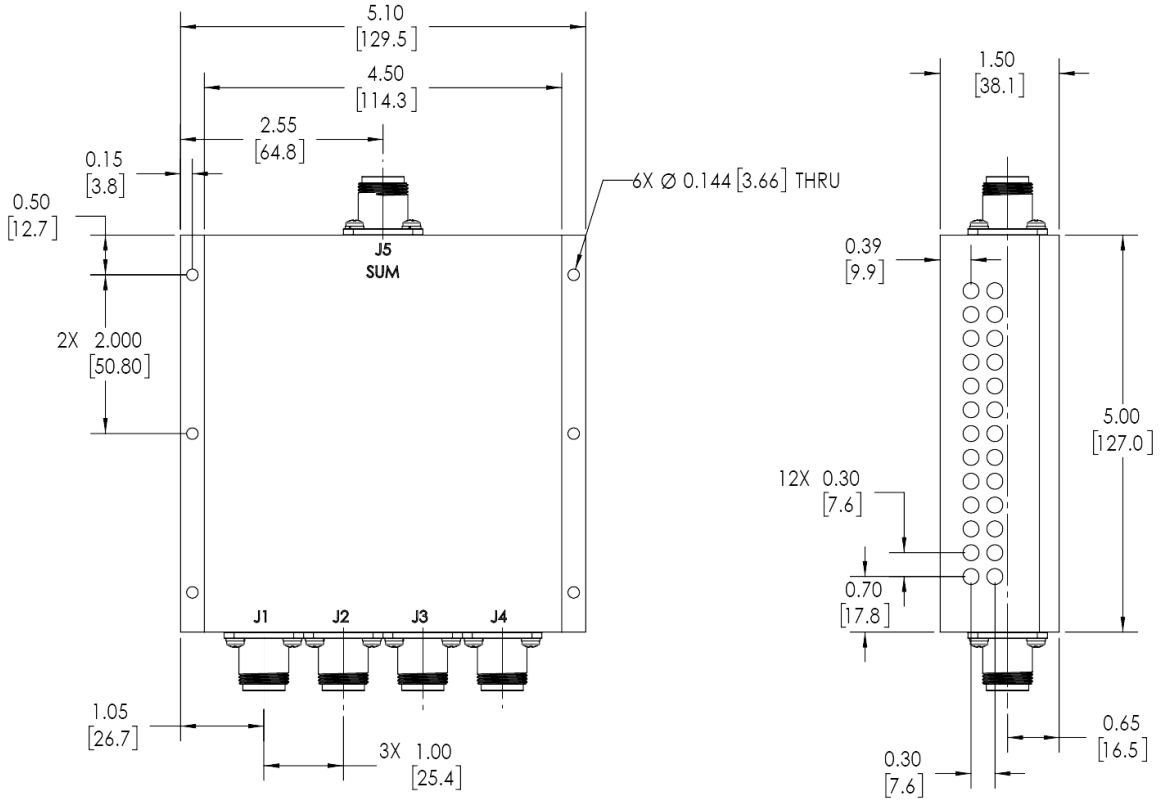

Phase Balance:




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| REVISION HISTORY | | | |
|---|---|---|---|
| REV. | REVISION RECORD | DATE | APPROVED |
| A | ECN 9696 | 10/18/2019 | RB |







**NOTES: UNLESS OTHERWISE SPECIFIED**

1. **MATERIAL: ALUMINUM 6061-T6**
2. **FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
3. **CONNECTORS:**
   **J1-J5: N FEMALE**

| | |
|---|---|
| NEXT ASSY | USED ON |
| APPLICATION | |

UNLESS OTHERWISE SPECIFIED
INTERPRET DRAWING IAW MIL-STD-100
DIMENSIONING PER ASME Y14.5M-2009
PARENTHETICAL INFO FOR REF ONLY
DIMENSIONS ARE IN INCHES
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
TOLERANCES:
ANGLES ± 2°
3 PL ± .005 [.13]
2 PL ± .015 [.38]
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX
CONCENTRICITY MACHINED DIA: .002 FIM
MACHINE TOOL MISMATCH .003 MAX

THIRD ANGLE PROJECTION

| | | DATE |
|---|---|---|
| DWN | SD | 10/18/2019 |
| CHK | CS | 10/18/2019 |
| ENGR | | |
| MFGR | | |
| QA | | |
| RLSE | | |

WERLATONE| SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE
OUTLINE

| SIZE | CAGE CODE | DWG NO | REV |
|---|---|---|---|
| B | | 10550-500 | A |

SCALE 1:1.5 SHEET 1 OF 1

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