Model D9939
Combiners In-Phase Connectorized

**PRODUCT DATA SHEET** **D9939**

**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 | Isolation | Custom Designs Available

**Electrical Specifications:**

| | |
|---|---|
| Frequency: | 1000 - 2500 MHz |
| Power: | 200 W CW |
| Insertion Loss: | 0.5 dB Max. |
| VSWR: | 1.40:1 Max. |
| Phase Balance: | ± 4° Max. |
| Amplitude Balance: | 0.3 dB Max. |
| Isolation: | 8 dB Reflective |

**Mechanical Specifications:**

| | |
|---|---|
| Type: | Connectorized |
| Material: | Aluminum 6061-T6 |
| Surface Finish: | Chem. Film Per MIL-DTL-5541F Type II Class 3 (Trivalent) RoHS Compliant Available |
| Operating Temperature: | -55°C to +75°C |
| Storage Temperature: | -60°C to +85°C |
| Size: | 4.75 x 2.3 x 1.1'' |

**Connector Configurations:**

| **Model** | **Sum Port (J1)** | **Input/Output (J2-J9)** |
|---|---|---|
| D9939-12 | N Female | SMA Female |

Electrical Specifications updated 23 March 2020.

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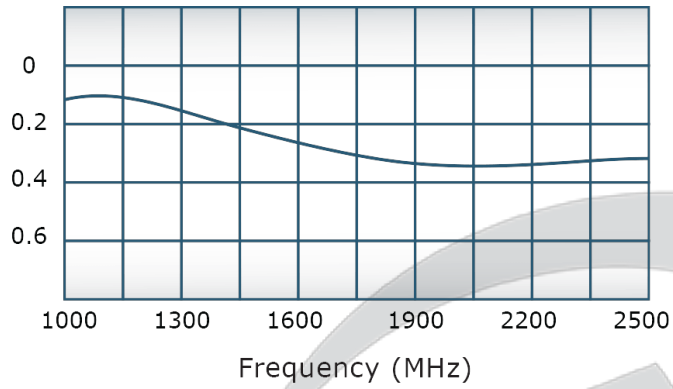
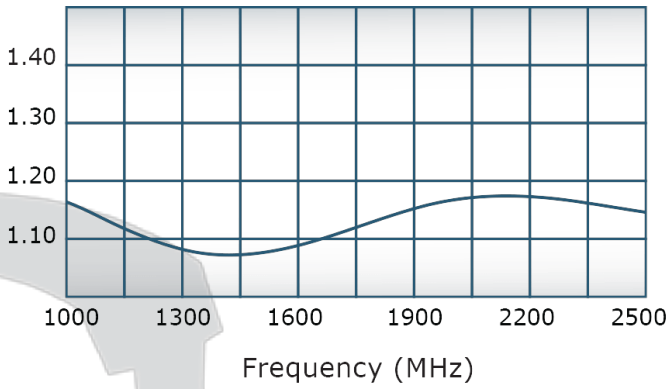
## Performance Data (Specifications subject to change without notice):

Insertion Loss:

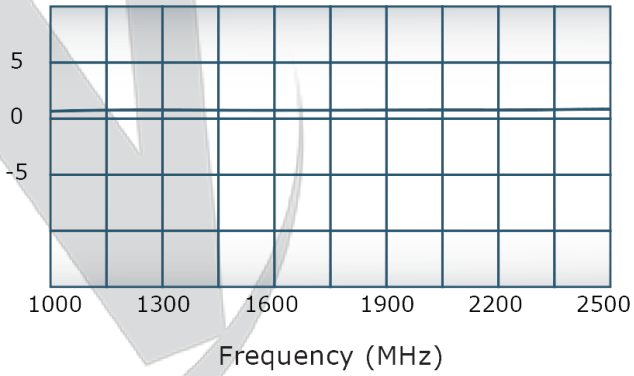



VSWR:




For In-Building Applications:

Phase Balance:

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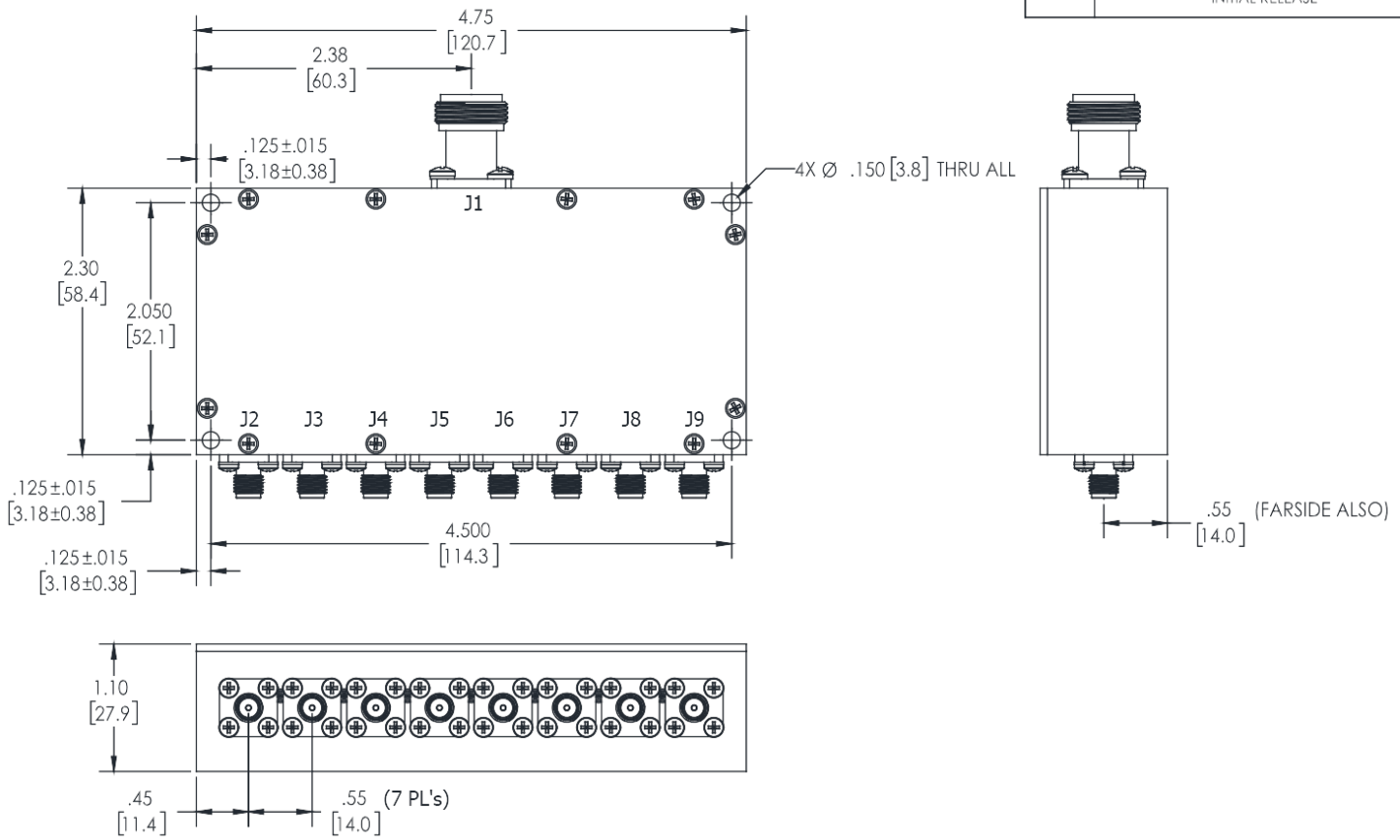
| REVISION HISTORY | | | |
|---|---|---|---|
| REV. | REVISION RECORD | DATE | APPROVED |
| - | INITIAL RELEASE | 3/27/2020 | BW |




**NOTES: UNLESS OTHERWISE SPECIFIED**

1. **MATERIAL: ALUMINUM 6061-T6**
2. **SURFACE FINISH: CHEM FILM PER MIL-DTL-5541F TYPE II, CLASS 3 (TRIVALENT)**
3. **CONNECTORS: J1 : N FEMALE**
   **J2-J9 : SMA FEMALE**

| | | | | | |
|---|---|---|---|---|---|
| | | UNLESS OTHERWISE SPECIFIED | DWN GP | 3/27/2020 | WERLATONE SINCE 1965 — 17 Jon Barrett Rd Patterson, NY 12563 |
| | | • INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES [mm] • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 2 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 | CHK CS | 3/27/2020 | TITLE: D9939-12 8-WAY COMBINER/DIVIDER |
| | | | ENGR GP | 3/27/2020 | |
| | | | MFGR | | SIZE B \| CAGE CODE 28812 \| DWG NO 21178-500 \| REV - |
| | D9939-12 | | QA | | |
| NEXT ASSY | USED ON | | RLSE BW | 3/27/2020 | SCALE 1:1 \| SHEET 1 OF 1 |
| APPLICATION | | THIRD ANGLE PROJECTION | | | |

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