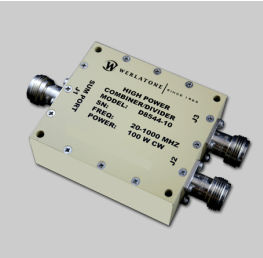
WERLATONE

Model D8544W
Combiners In-Phase Connectorized



**PRODUCT DATA SHEET** **D8544W**

**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 - 1000 MHz |
| Power: | 100 W CW |
| Insertion Loss: | 0.5 dB Max. |
| VSWR: | 1.35:1 Max. |
| Phase Balance: | ± 3° Max. |
| Amplitude Balance: | 0.35 dB Max. |
| Isolation: | 18 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: | 2.85 x 2.5 x 1.0'' |

**Connector Configurations:**

| **Model** | **Sum Port (J1)** | **Input/Output (J2)** | **Input/Output (J3)** |
|---|---|---|---|
| D8544W-10 | N Female | N Female | N Female |

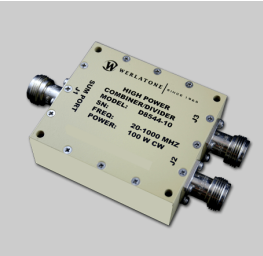
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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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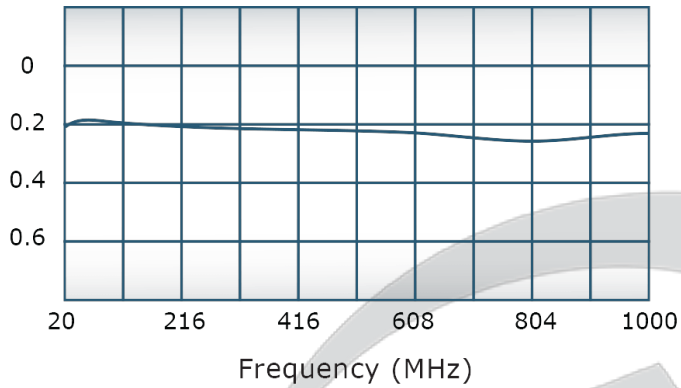
Model D8544W
Combiners In-Phase Connectorized



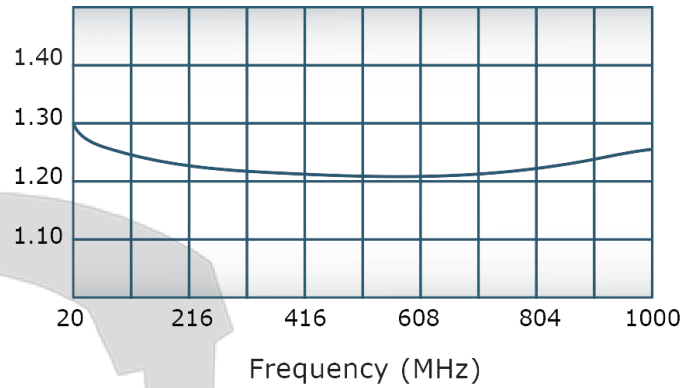
**PRODUCT DATA SHEET** **D8544W**

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

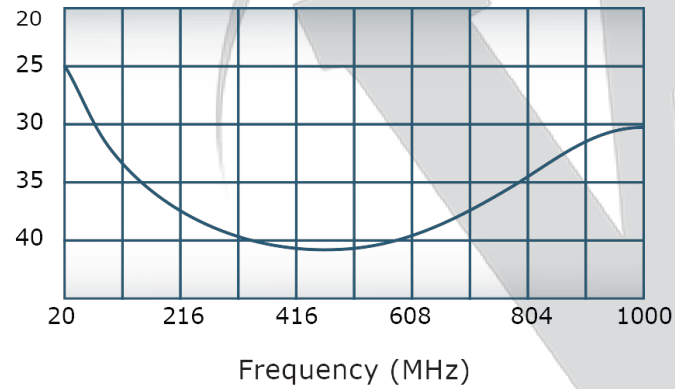
Insertion Loss:



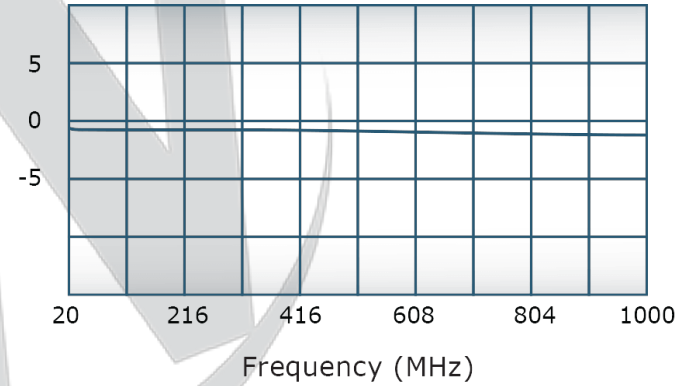

VSWR:




Isolation:




Phase Balance:

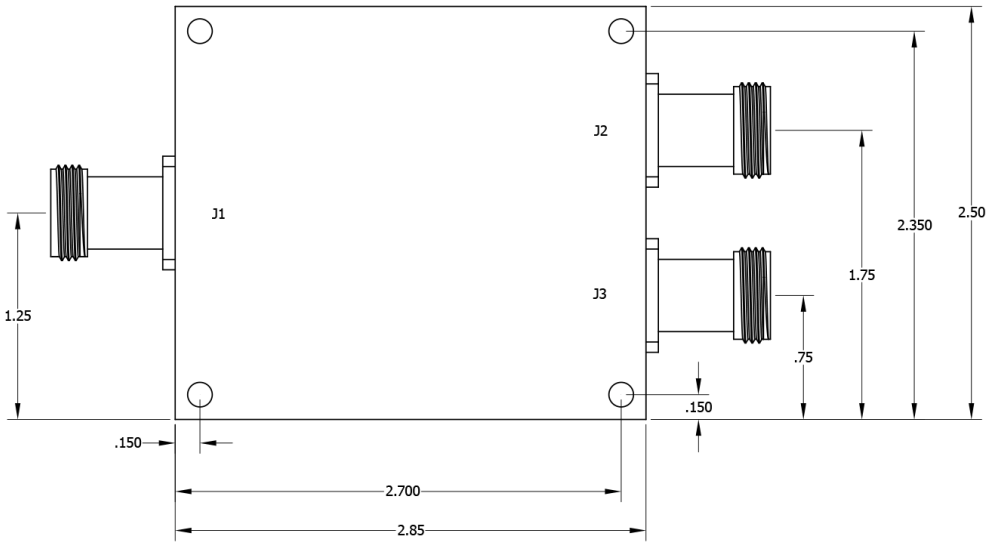


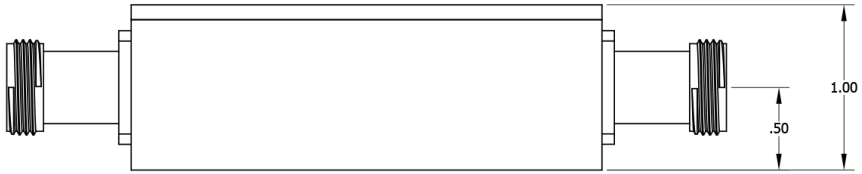

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| REVISION HISTORY | | | | | |
|---|---|---|---|---|---|
| DATE | REV | REVISION RECORD | AUTH | CHK | APPV |
| 3/29/10` | - | INITIAL RELEASE | AK | CS | BW |
| | | | | | |
| | | | | | |
| | | | | | |




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°
.XXX ± .005
.XX ± .01

° HOLE TOLERANCES +.004/-.001
° REMOVE ALL BURRS AND SHARP EDGES .01 R MAX
° CONCENTRICITY MACHINED DIA: .002 FIM
° MACHINE TOOL MISMATCH .003 MAX

THIRD ANGLE PROJECTION

| | | DATE |
|---|---|---|
| DWN | AK | 3/29/2010 |
| CHK | CS | 3/29/2010 |
| ENGR | BW | 3/29/2010 |
| MFGR | | |
| QA | | |
| RLSE | | |

WERLATONE | SINCE 1965
2095 Route 22
Brewster, NY 10509

TITLE: OUTLINE
USED ON

| SIZE | CAGE CODE | DWG NO | REV |
|---|---|---|---|
| A | 28812 | 20582-500 | - |

SCALE 1:1 SHEET 1 OF 1

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