

PRODUCT DATA SHEET D5868

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: 819 - 869 MHz
Power: 160 W CW
Insertion Loss: 0.8 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: ± 5° Max.
Amplitude Balance: 0.6 dB Max.
Isolation: 60 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 $+75^{\circ}$ C Size: -60° C to $+85^{\circ}$ C 13.0 x 10.0 x 1.5"

Connector Configurations:

Model Sum Port (J9) Input/Output (J1-J8)

 D5868-10
 N Female
 N Female

 D5868-12
 N Female
 SMA

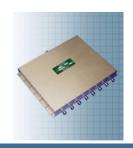
 D5868-102
 SMA
 SMA

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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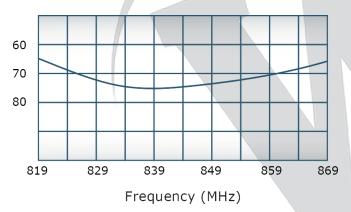
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Performance Data (Specifications subject to change without notice):

VSWR: Insertion Loss: 1.40 9.00 1.30 9.25 1.20 9.50 9.75 1.10 819 829 839 849 859 869 819 829

1.40 1.30 1.20 1.10 819 829 839 849 859 869 Frequency (MHz)

Isolation:



Frequency (MHz)





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