WERLATONE

Model D8803
Combiners In-Phase Connectorized

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 - 300 MHz
Power: 1750 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: ± 5° Max.
Amplitude Balance: 0.2 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
Weight: 11.25 lbs.
Size: 9.4 x 8.4 x 2.25''

Connector Configurations:

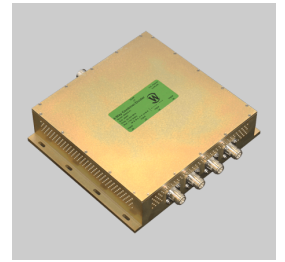| Model	Sum Port (J1)	Input/Output (J2-J5)
D8803-20	7/16 Female	N Female
D8803-40	SC Female	SC Female
D8803-41	SC Female	N Female

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.

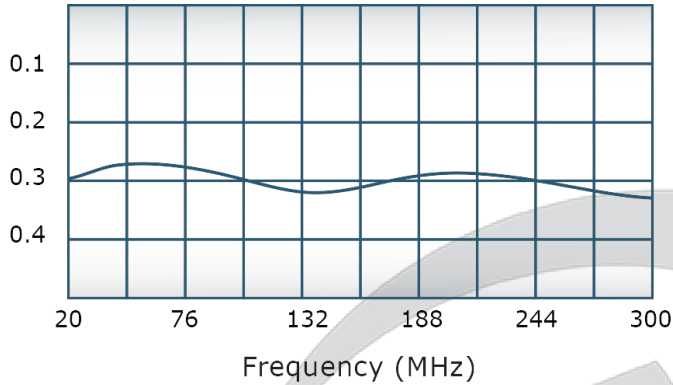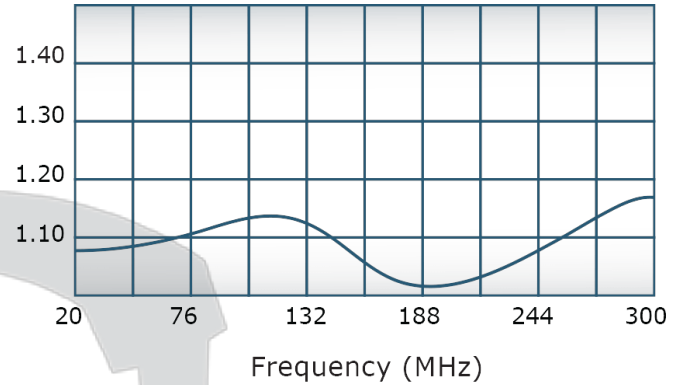## PRODUCT DATA SHEET   D8803

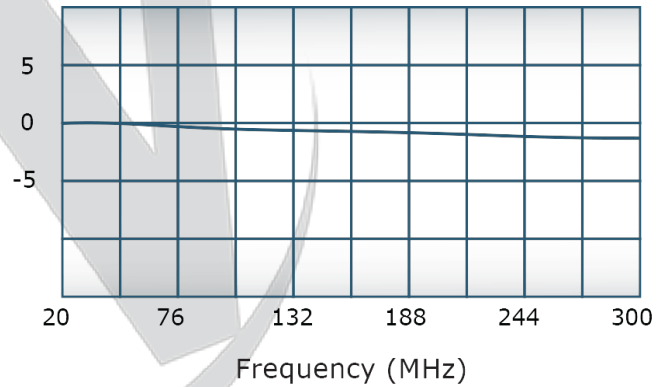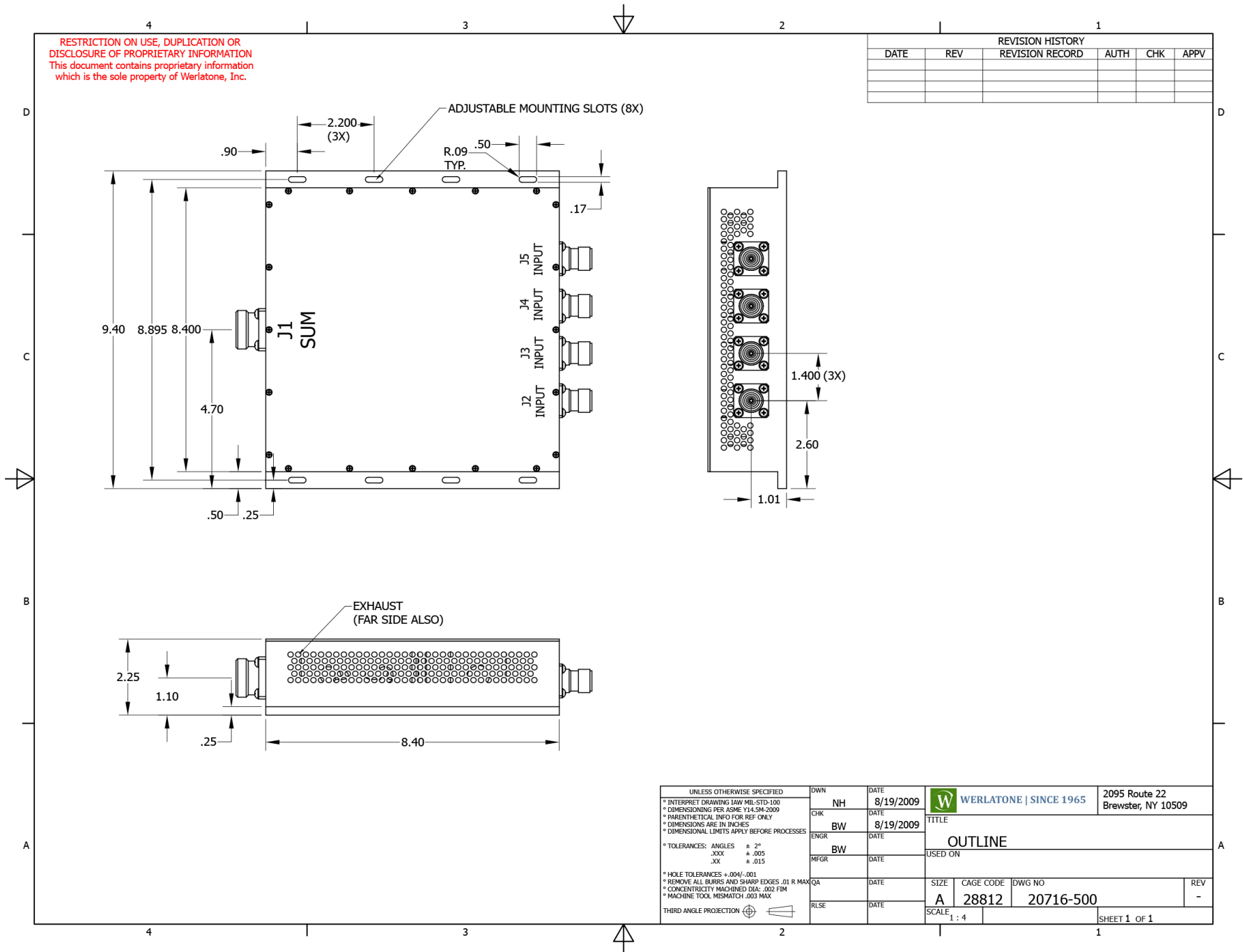## Performance Data (Specifications subject to change without notice):

Insertion Loss:
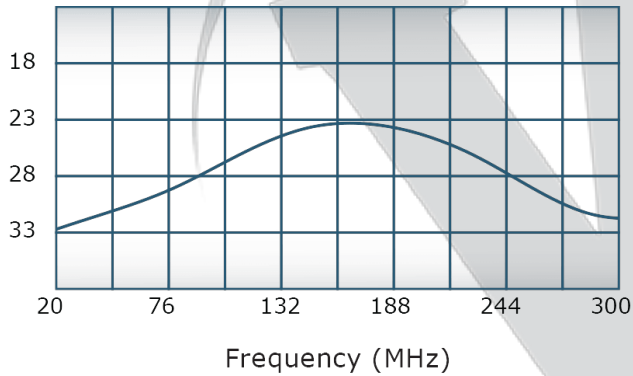
Frequency (MHz)

VSWR:

Frequency (MHz)

Isolation:

Frequency (MHz)

Phase Balance:

Frequency (MHz)

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ADJUSTABLE MOUNTING SLOTS (8X)

2.200 (3X)

.90

R.09 TYP.

.50

.17

J5 INPUT
J4 INPUT
J3 INPUT
J2 INPUT

J1 SUM

9.40   8.895   8.400

4.70

.50   .25

1.400 (3X)

2.60

1.01

EXHAUST
(FAR SIDE ALSO)

2.25

1.10

.25

8.40