

PRODUCT DATA SHEET

D3857

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: 10 - 100 MHz
Power: 5000 W CW
Insertion Loss: 0.6 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: $\pm 5^\circ$ 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
Size: 17.0 x 18.0 x 5.0"

Connector Configurations:

Model	Sum Port (J5)	Input/Output (J1-J4)
D3857	LC Female	HN Female

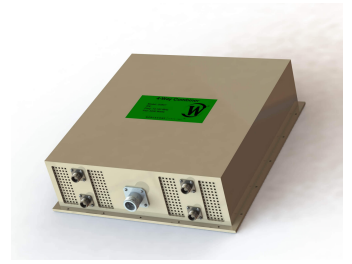
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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



WERLATONE

Model D3857

Combiners In-Phase Connectorized

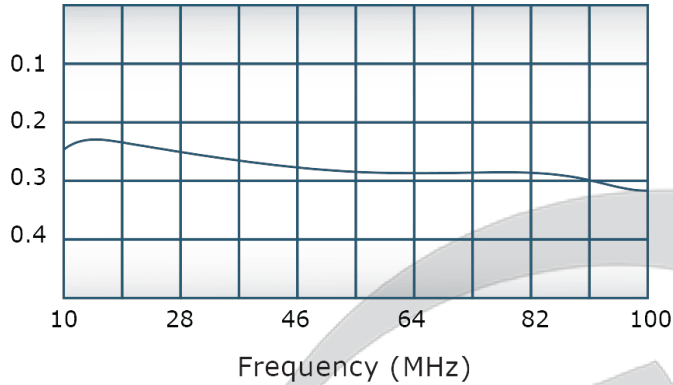


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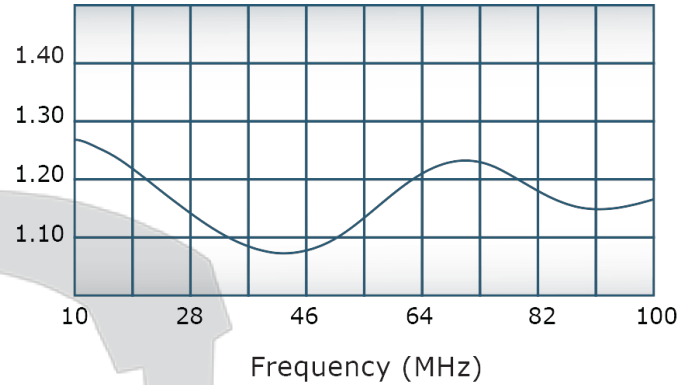
D3857

Performance Data (Specifications subject to change without notice):

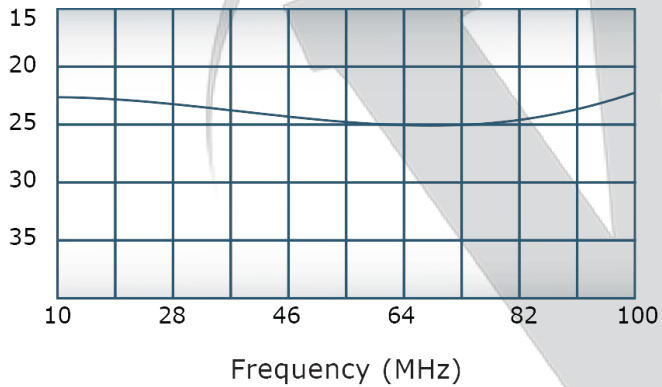
Insertion Loss:



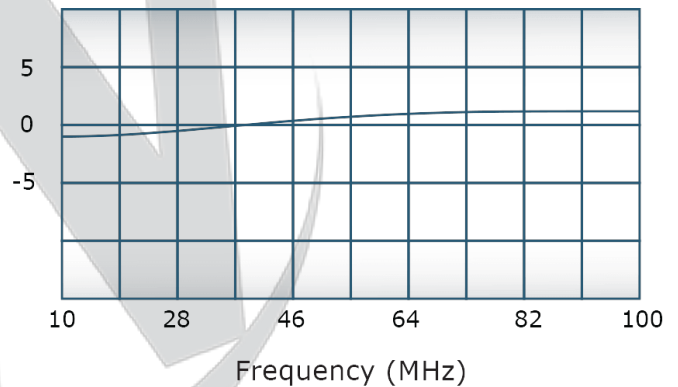
VSWR:



Isolation:



Phase Balance:

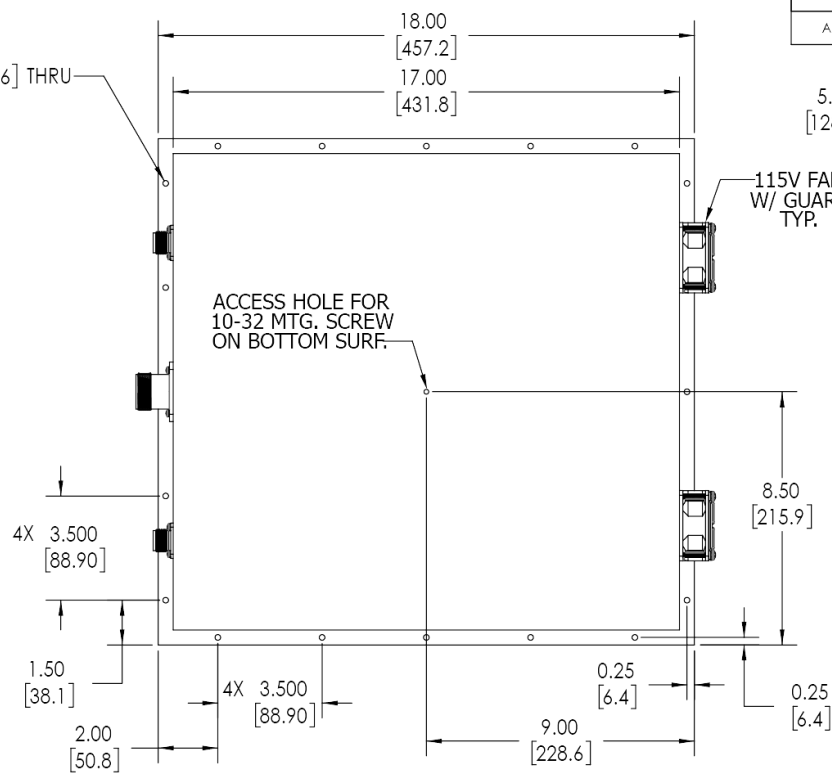


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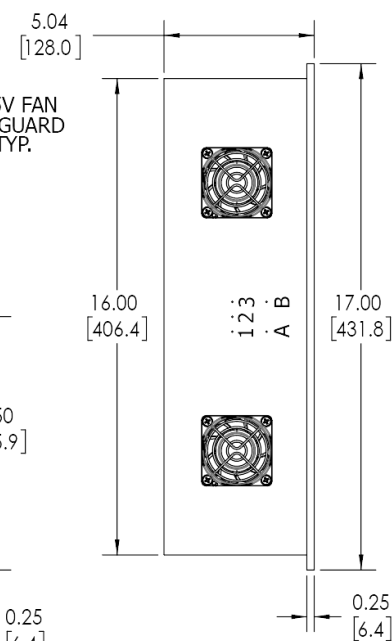
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Front view of the power supply unit. Dimensions are shown in inches [mm].


- FAN EXHAUST (pointing to the top fan grille)
- 20X Ø 0.18 (pointing to the top fan grille)
- 13.50 [342.9] (height of the top fan grille)
- 8.50 [215.9] (height of the top fan grille)
- 3.50 [88.9] (height of the top fan grille)
- 0 [0.0] (height of the top fan grille)
- 0 [0.0] (height of the top fan grille)
- 1.25 [31.8] (height of the top fan grille)
- 2.25 [57.2] (height of the top fan grille)
- 3.95 [100.3] (height of the top fan grille)



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



1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
 - J1-J4: HN FEMALE
 - J5: LC FEMALE
4. FAN POWER: 1-3, 220V AC
 - 2-1 & 3, 115V AC
5. A,B: THERMOSTAT, NORMALLY OPEN (95 DEG C)

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12565		
INTERPRET DRAWING IN ACC. WITH MIL-STD-100		SD	10/18/2019				
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
PARENT DIMENSIONS EXCEPT FOR KEY USED		CS	10/18/2019				
DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE			
DIMENSIONAL TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED		REFGR	DATE	OUTLINE			
ANGLES = 2° 3 P. & .003 (13) 2 P. & .015 (30)		QA	DATE		SIZE	CAGE CODE	DWG NO
REMOVE ALL BURRS AND SHARP EDGES R0.1 MAX							
CHUCK/RECTRICTY MACHINED DIA. .002 FPM MACHINE TIME PROJECTIONS .001 MAX		RLSE	DATE		SCALE	10376-500	
NEXT ASSY	USED ON			4			
APPLICATION		THIRD ANGLE PROJECTION				SHEET 1 OF 1	

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D3857 Rev.-