

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: ± 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
 Size: 17.0 x 18.0 x 5.0"

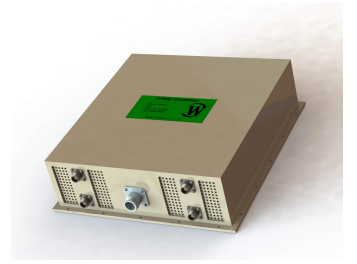
Connector Configurations:

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.

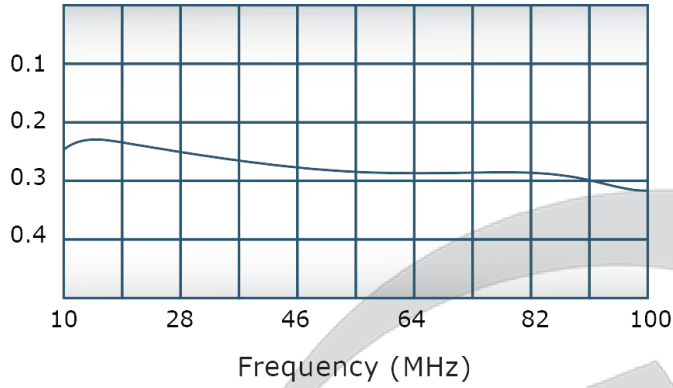
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

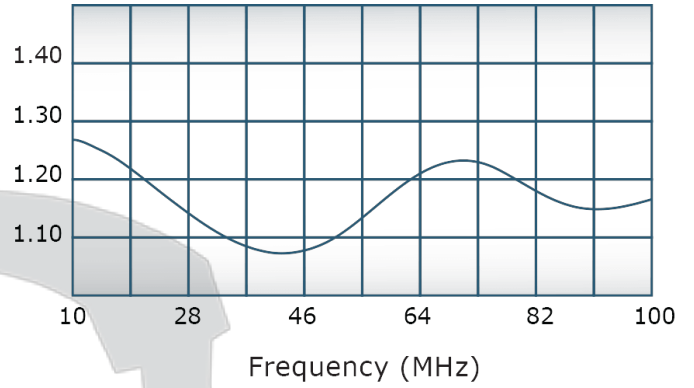


Performance Data (Specifications subject to change without notice):

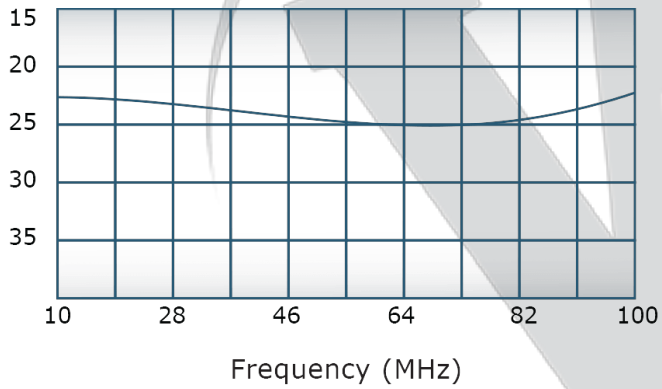
Insertion Loss:



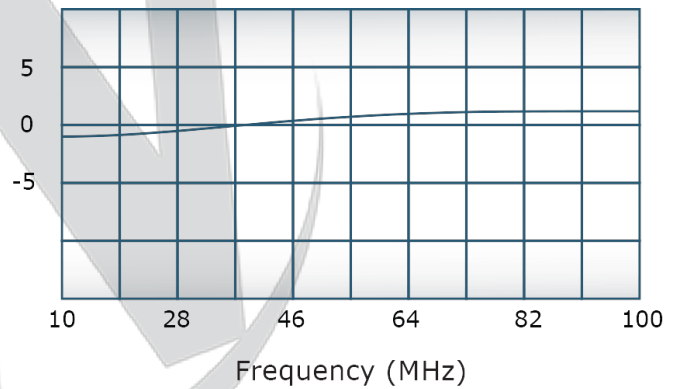
VSWR:



Isolation:



Phase Balance:



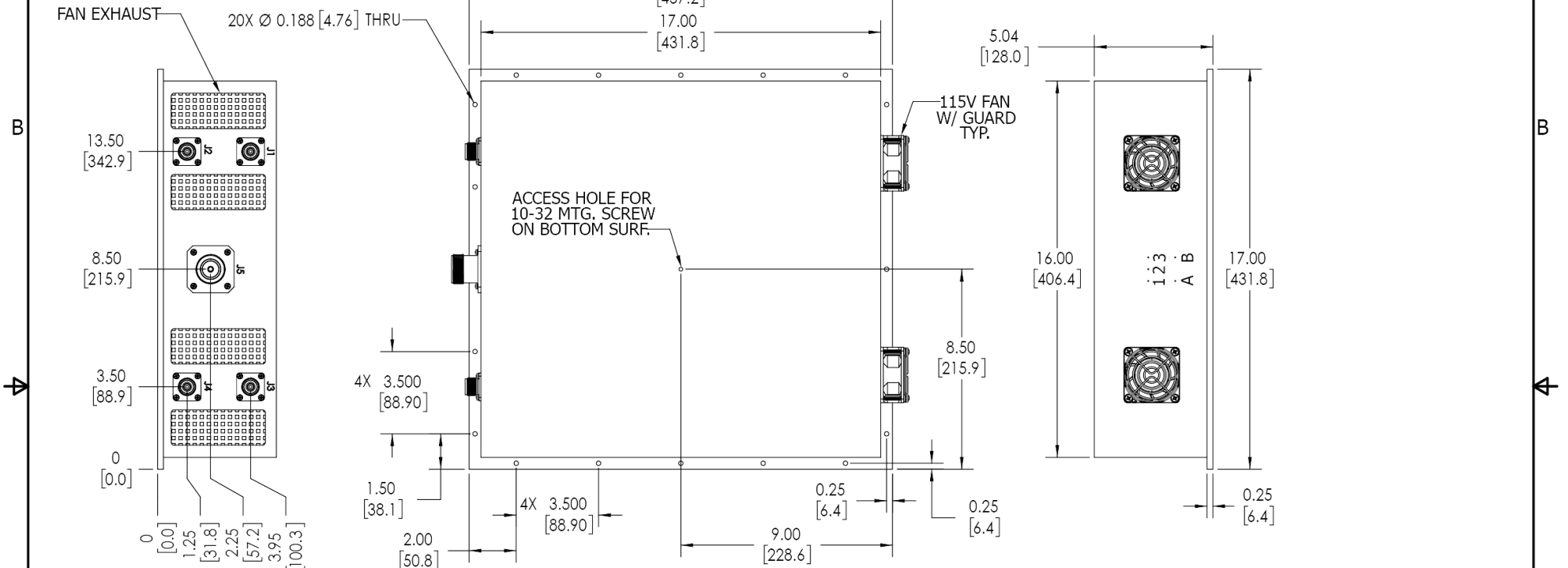
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB



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

UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	10/18/2019	DATE		
DIMENSIONS PER ASME Y14.5M-2009	CHK		DATE	TITLE	
PARENTHEetical INFO FOR REF ONLY	CS	10/18/2019	DATE	OUTLINE	
DIMENSIONS ARE IN INCHES	ENGR		DATE	SIZE	CAGE CODE
DIMENSIONAL LIMITS APPLY BEFORE FINISHES	INFR		DATE	B	10376-500
TOLERANCES:	QA		DATE	DWG NO.	REV
ANGLES = 2°	RLSE		DATE	A	A
3 PL ± .005 (.13)	APPLICATION		THIRD ANGLE PROJECTION	SCALE	SHEET 1 OF 1
2 PL ± .015 (.38)				1:4	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA: .002 FIM					
MACHINE TOOL MISMATCH .003 MAX					

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