
**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.

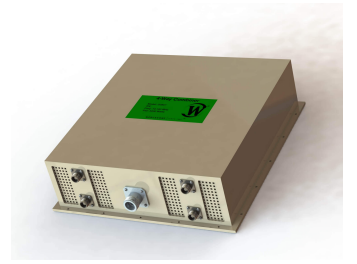
**Mechanical Specifications:**

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:**

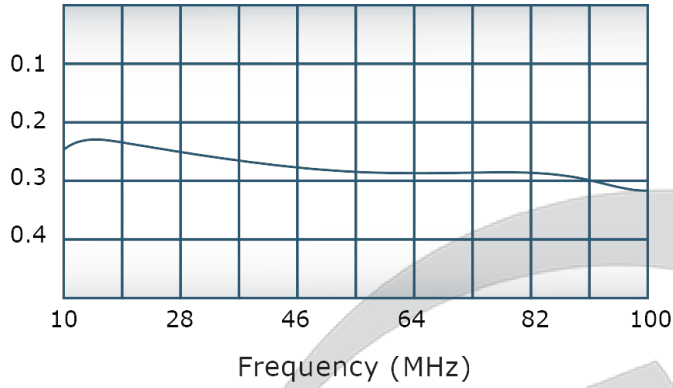
Model	Sum Port (J5)	Input/Output (J1-J4)
D3857	LC Female	HN Female

**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.

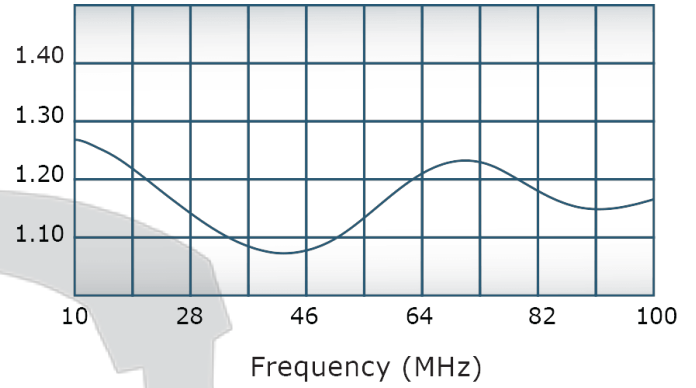


## Performance Data (Specifications subject to change without notice):

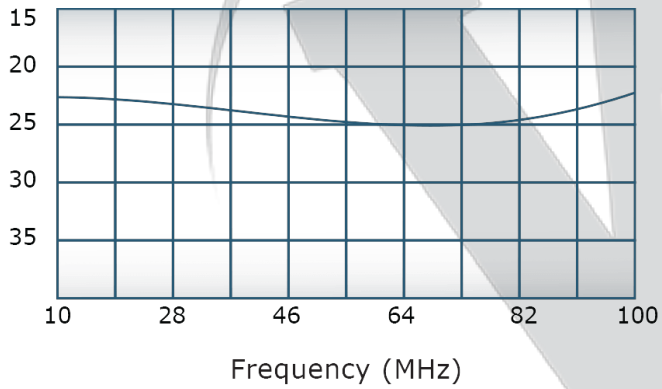
Insertion Loss:



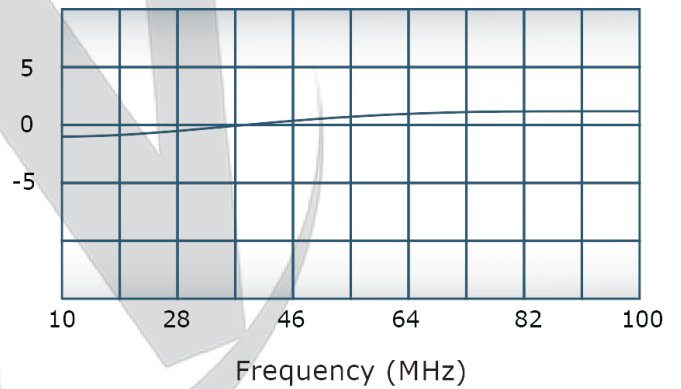
VSWR:



Isolation:



Phase Balance:



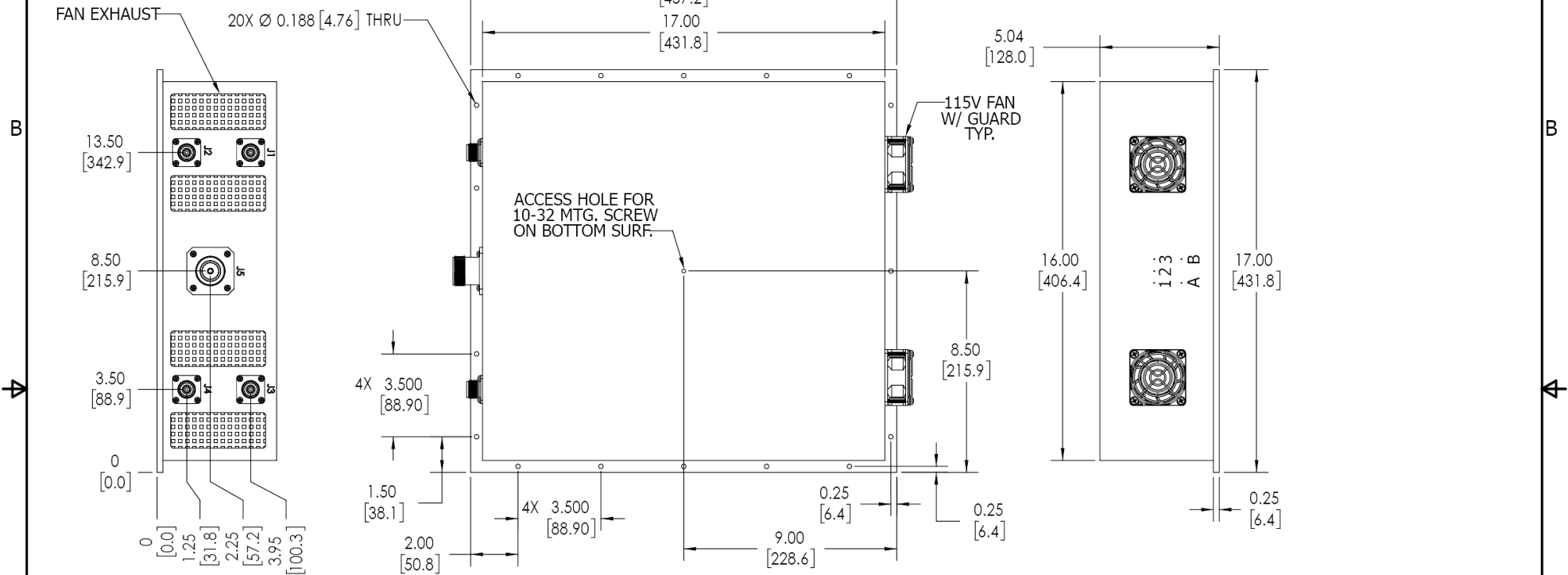
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Werlatone, Inc.

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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	<b>WERLATONE</b> 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	<b>OUTLINE</b>	
DIMENSIONS ARE IN INCHES	ENGR		DATE		
DIMENSIONAL LIMITS APPLY BEFORE FINISHES	INFR		DATE	SIZE	CAGE CODE
TOLERANCES:	QA		DATE	B	10376-500
ANGLES ± 2°	RLSE		DATE	DWG NO.	REV
3 PL ± .005 (.13)				A	A
2 PL ± .015 (.38)				SCALE	SHEET 1 OF 1
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				1:4	
CONCENTRICITY MACHINED DIA: .002 FIM					
MACHINE TOOL MISMATCH .003 MAX					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION			
APPLICATION					

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