

PRODUCT DATA SHEET

D5778

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: 30 - 90 MHz
 Power: 5000 W CW
 Insertion Loss: 0.3 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: $\pm 5^\circ$ Max.
 Amplitude Balance: 0.2 dB Max.
 Isolation: 20 dB Min.

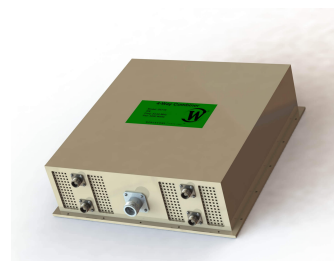
Mechanical Specifications:

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)
D5778-20	7/16 Female	N Female
D5778-30	LC Female	N Female
D5778-70	7/8" EIA	N Female
D5778-80	1 5/8" EIA	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.

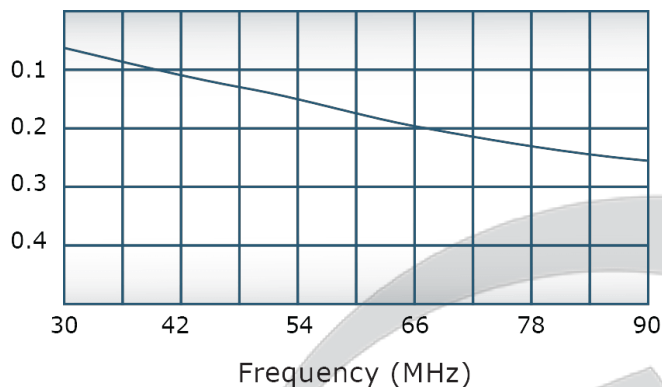


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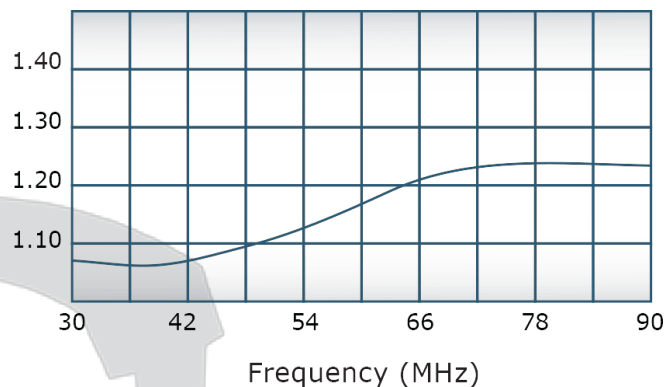
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Performance Data (Specifications subject to change without notice):

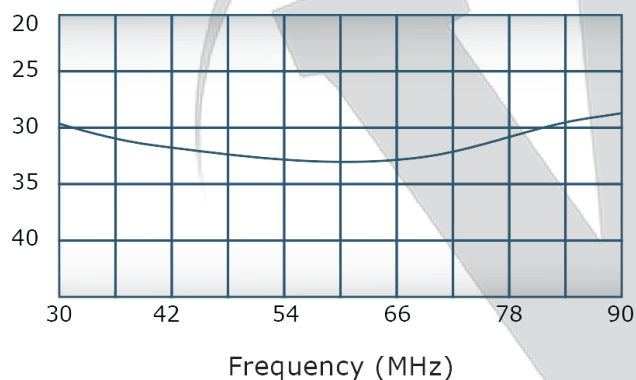
Insertion Loss:



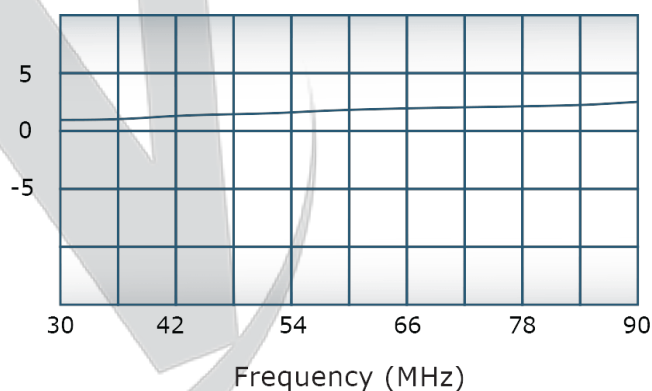
VSWR:



Isolation:

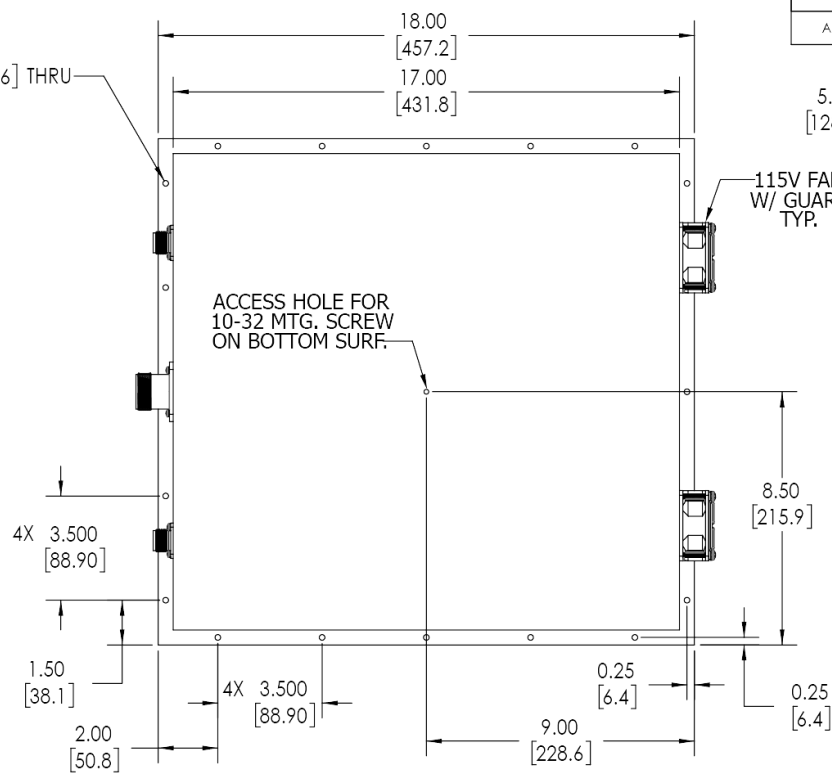


Phase Balance:

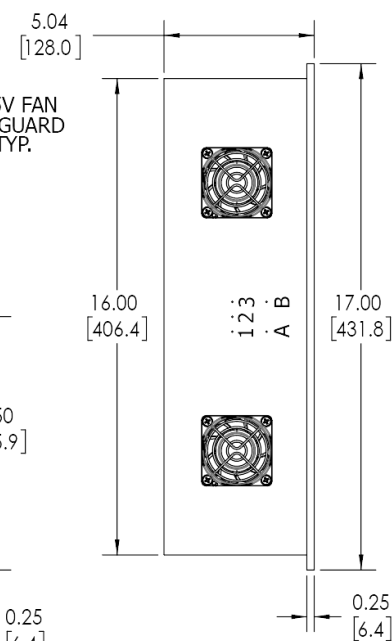


Front view of the power supply unit. Dimensions are shown in inches [mm].


- 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 Y14.5-2009		CHK	DATE					
		PARENT DIMENSIONS EXCEPT FOR KEY		CS	10/18/2019					
		DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE				
		DIMENSIONAL TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED		REFR	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 R.01 MAX CHUCK/RECTIFY MACHINED DIA. .002 FIM MACHINE TIME .000 MAX		RLSE	DATE		10376-500			
NEXT ASSY	USED ON					SCALE	4		REV	A
APPLICATION		THIRD ANGLE PROJECTION						SHEET 1 OF 1		

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