



PRODUCT DATA SHEET

D3897

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: 500 - 1000 MHz
 Power: 1000 W CW
 Insertion Loss: 0.2 dB Max.
 VSWR: 1.50:1 Max.
 Phase Balance: $\pm 3^\circ$ Max.
 Amplitude Balance: 0.15 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: 0.5 lbs.
 Size: 2.0 x 5.0 x 1.88"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D3897-10	N Female	N Female	N Female
D3897-41	SC Female	N Female	N Female
D3897-102	SMA	SMA	SMA

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 D3897

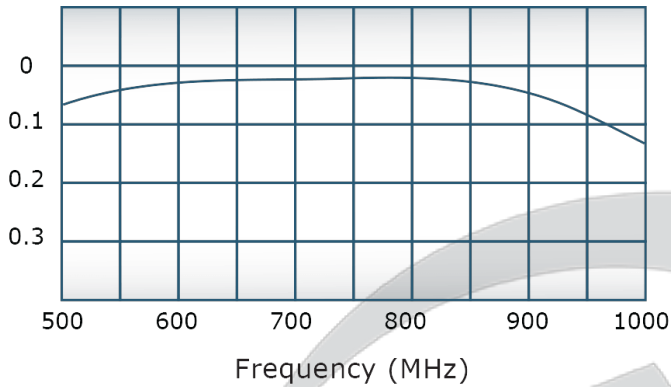


PRODUCT DATA SHEET

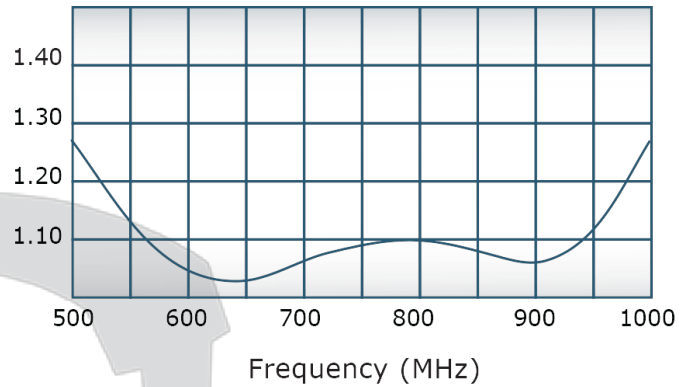
D3897

Performance Data (Specifications subject to change without notice):

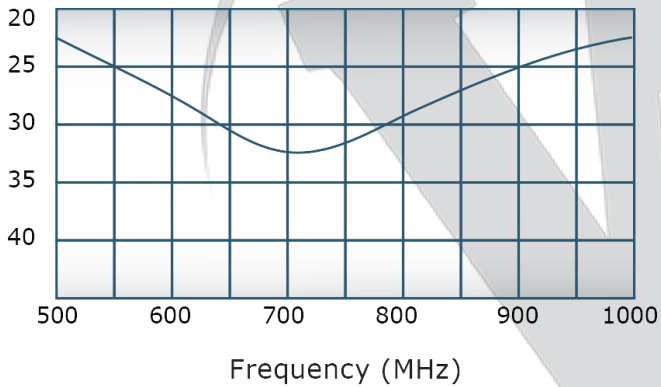
Insertion Loss:



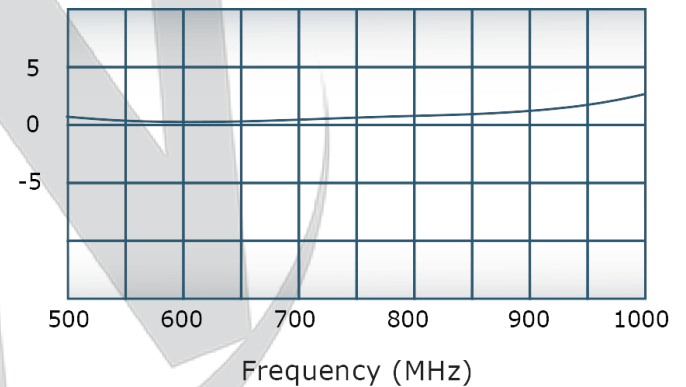
VSWR:



Isolation:



Phase Balance:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION

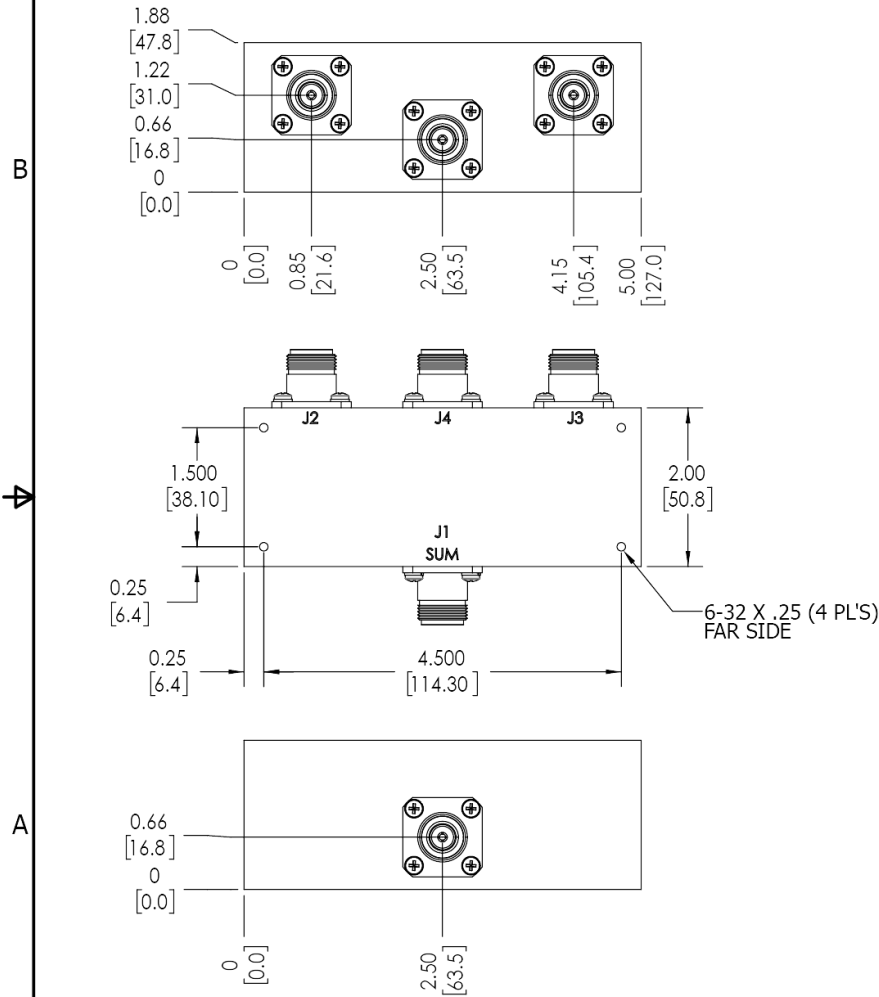
This document contains proprietary information which is the sole property of Werlatone, Inc.


REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/25/2019	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: N FEMALE
J4: ISOLATED PORT (EXTERNAL LOAD REQUIRED)



		UNLESS OTHERWISE SPECIFIED		DWN	DATE	<div> WERLATONE SINCE 1965</div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	11/25/2019		
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE		
		PARENTHESES FOR REF ONLY		CS	11/25/2019		
		DIMENSIONS ARE IN INCHES		ENGR	DATE	<div>OUTLINE</div> <div>SIZE: B CAGE CODE: DWG NO: 10682-500</div> <div>SCALE: 1.5 SHEET 1 OF 1</div>	
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		DATE	DATE		
		TOLERANCES:		DATE	DATE		
		ANGLES ± 2°		DATE	DATE		
		3 PL ± .005 [13]		DATE	DATE		
		2 PL ± .015 [38]		DATE	DATE		
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	DATE		
		CONCENTRICITY MACHINED DIA. .002 FIM		DATE	DATE		
		MACHINE TOOL MISMATCH .003 FIM		DATE	DATE		
		THIRD ANGLE PROJECTION		DATE	DATE		
				DATE	DATE		
NEXT ASSY	USED ON						
APPLICATION							

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com