



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

Combiners In-Phase Connectorized

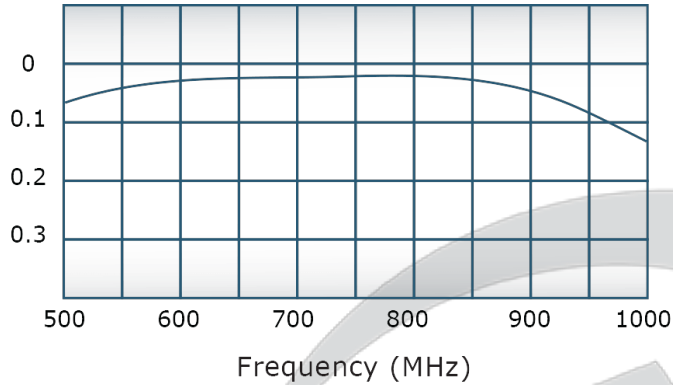


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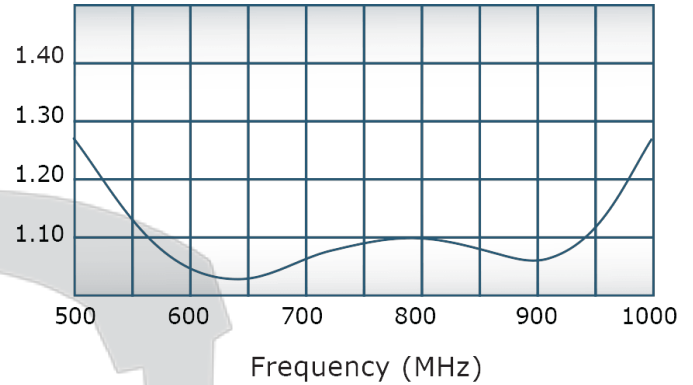
D3897

Performance Data (Specifications subject to change without notice):

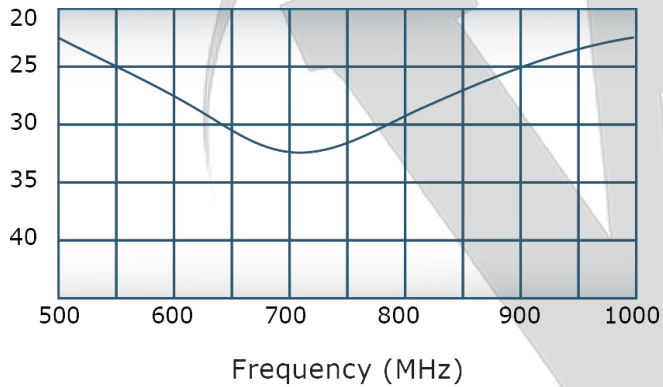
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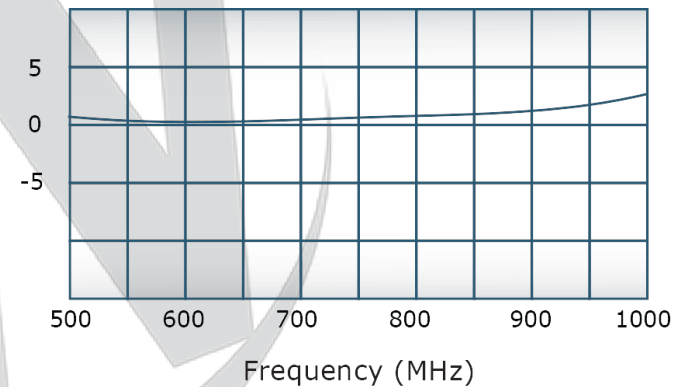
VSWR:



Isolation:



Phase Balance:



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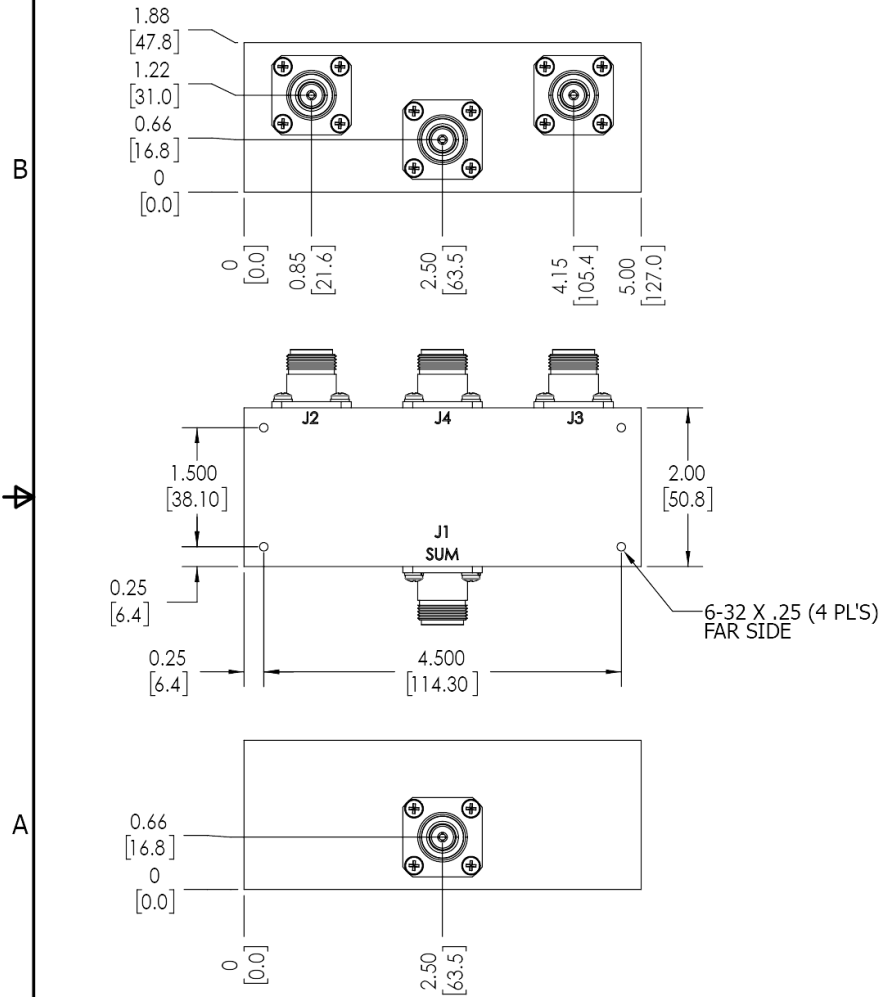
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REVISION HISTORY

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	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		SD	11/25/2019						
		CHK	DATE						
		CS	11/25/2019						
		ENGR	DATE	TITLE					
		MFR	DATE	OUTLINE					
		QA	DATE	SIZE		CAGE CODE	DWG NO	REV	
		RLS	DATE	SCALE		B	10682-500	A	
NEXT ASSY		USED ON		APPLICATION		1.5		SHEET 1 OF 1	