



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: ± 3° 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:

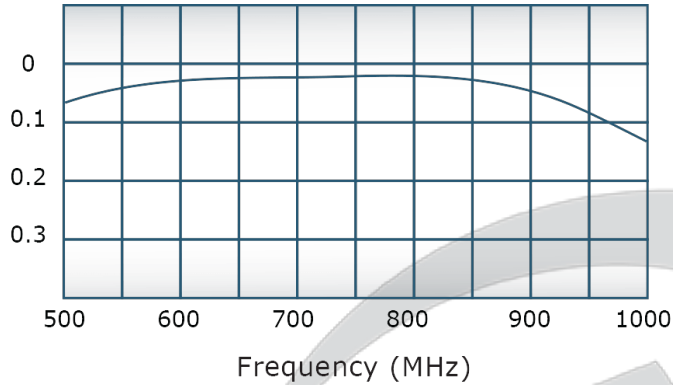
| Model | Sum Port (J1) | Input/Output (J2) | Input/Output (J3) |
|-----------|---------------|-------------------|-------------------|
| D3897-10 | N Female | N Female | N Female |
| D3897-41 | SC Female | N Female | N Female |
| D3897-102 | SMA | SMA | SMA |

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.

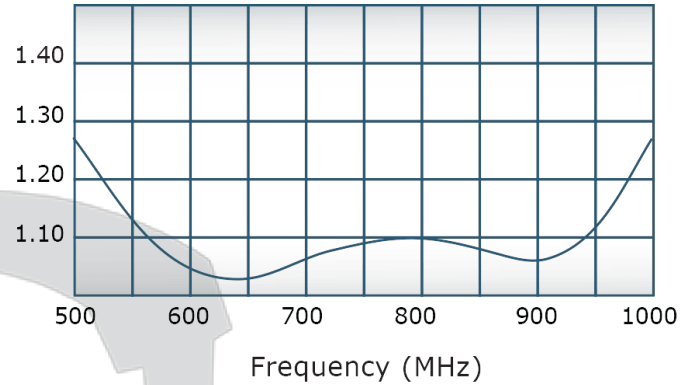


Performance Data (Specifications subject to change without notice):

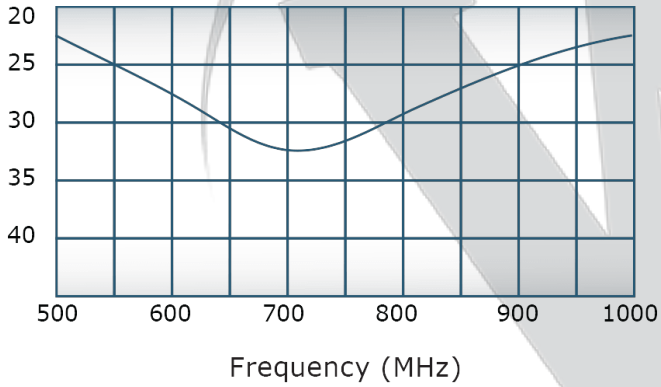
Insertion Loss:



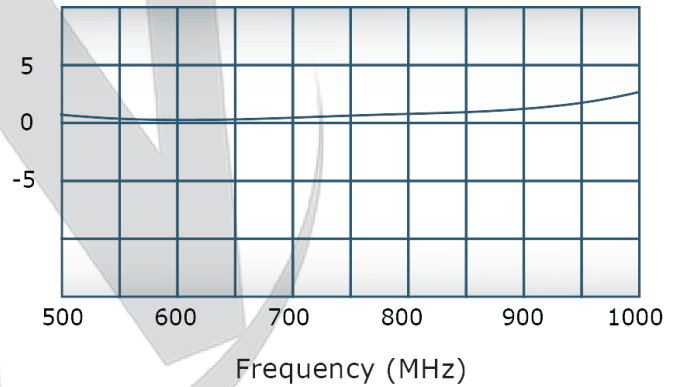
VSWR:



Isolation:



Phase Balance:



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Werlatone, Inc.

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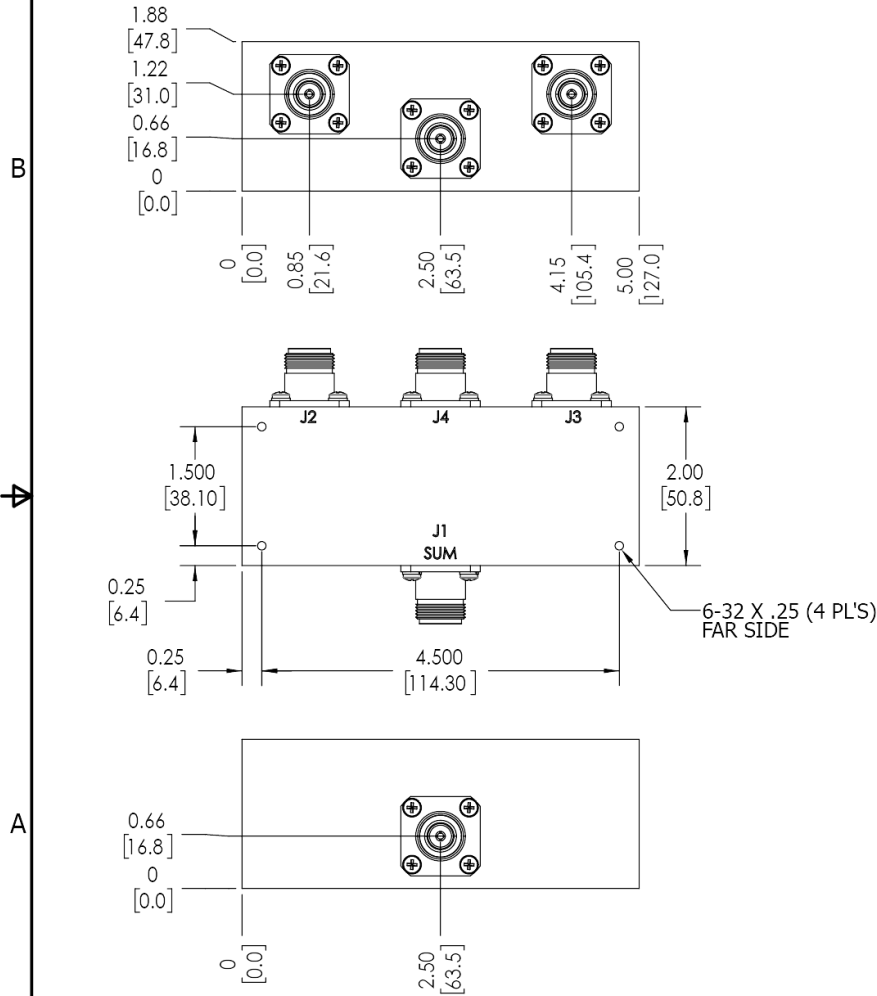
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REVISION HISTORY

| REV. | REVISION RECORD | DATE | APPROVED |
|------|-----------------|------------|----------|
| A | ECN 9696 | 11/25/2019 | RB |

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
 J1-J4: N FEMALE
 J4: ISOLATED PORT (EXTERNAL LOAD REQUIRED)



| | | | | |
|---|------------------------|------|------------|--|
| UNLESS OTHERWISE SPECIFIED | DWN | DATE | 11/25/2019 | 17 Jon Barrett Rd Patterson, NY 12563 |
| INTERPRET DRAWING IAW MIL-STD-100 | SD | DATE | | |
| DIMENSIONS PER ASME Y14.5M-2009 | CHK | DATE | | |
| PARENTHEetical INFO FOR REF ONLY | CS | DATE | 11/25/2019 | |
| DIMENSIONS ARE IN INCHES | ENGR | DATE | | TITLE |
| DIMENSIONAL LIMITS APPLY BEFORE PROCESSES | INFR | DATE | | OUTLINE |
| TOLERANCES: | QA | DATE | | SIZE CAGE CODE DWG NO |
| ANGLES = 2° | RLSE | DATE | | B 10682-500 |
| 3 PL ± .005 (.13) | | | | SCALE |
| 2 PL ± .015 (.38) | | | | 1:1.5 |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX | | | | REV |
| CONCENTRICITY MACHINED DIA: .002 FIM | | | | A |
| MACHINE TOOL MISMATCH .003 MAX | | | | SHEET 1 OF 1 |
| NEXT ASSY | USED ON | | | |
| APPLICATION | THIRD ANGLE PROJECTION | | | |

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