



## PRODUCT DATA SHEET

D6001

**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 - 88 MHz  
Power: 300 W CW  
Insertion Loss: 0.2 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  
Weight: 15 lb.  
Size: 3.0 x 3.0 x 2.25"

### Connector Configurations:

| Model     | Sum Port (J1) | Input/Output (J2) | Input/Output (J3) |
|-----------|---------------|-------------------|-------------------|
| D6001-10  | N Female      | N Female          | N Female          |
| D6001-12  | N Female      | SMA               | SMA               |
| D6001-113 | BNC           | BNC               | BNC               |
| D6001-300 | TNC Female    | TNC Female        | TNC 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.



# WERLATONE

Model D6001

Combiners In-Phase Connectorized

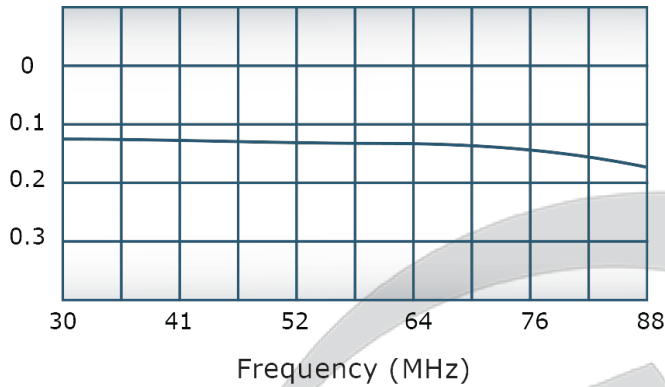


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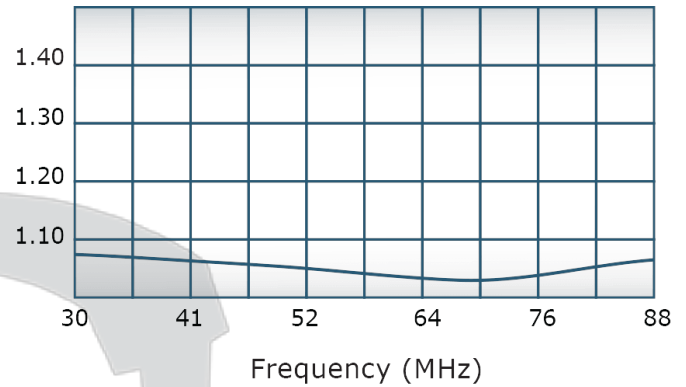
D6001

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

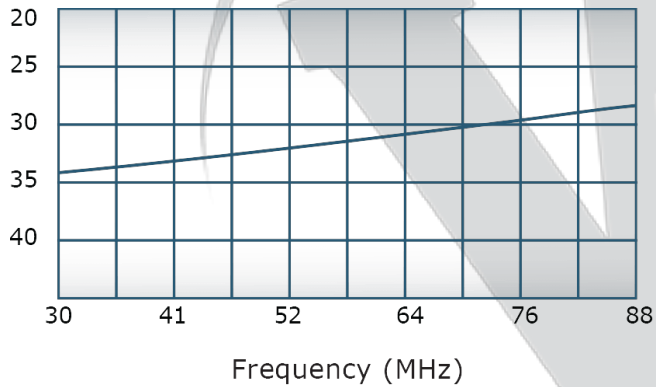
Insertion Loss:



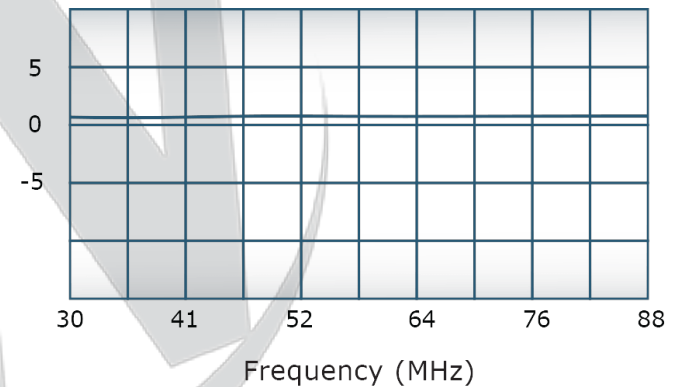
VSWR:



Isolation:



Phase Balance:

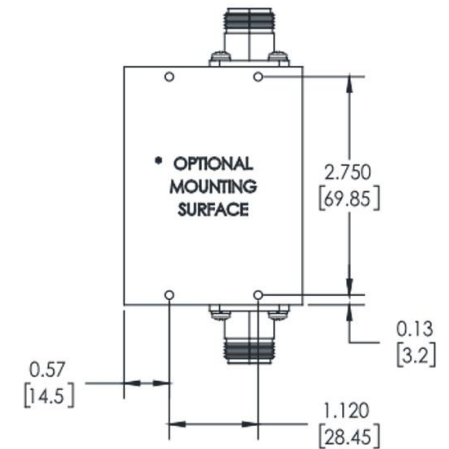
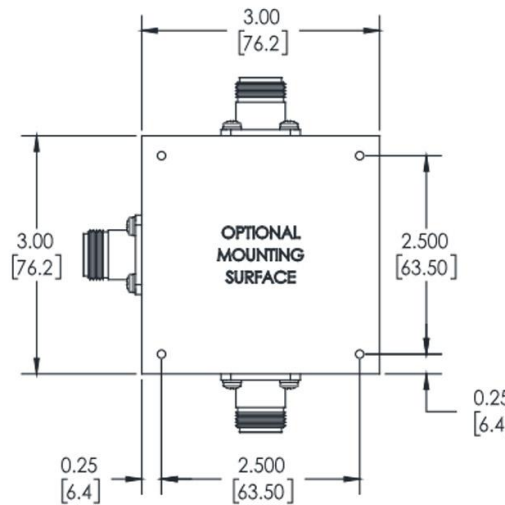
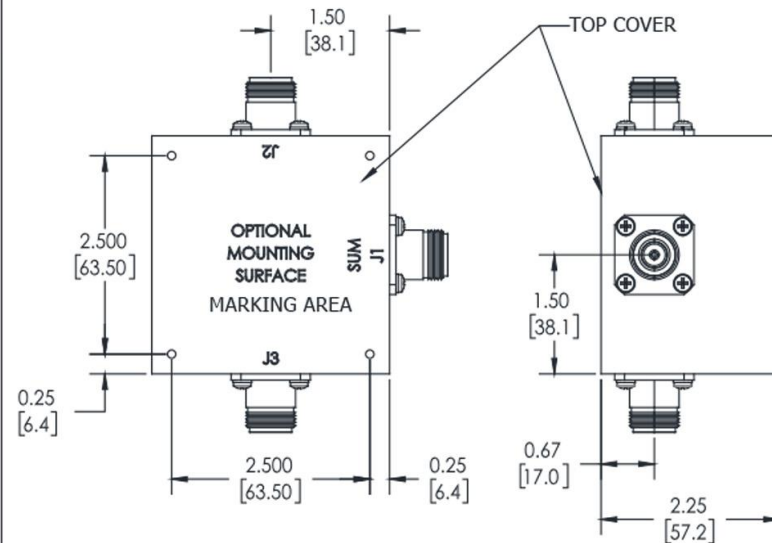


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| REVISION HISTORY |                 |           |          |
|------------------|-----------------|-----------|----------|
| REV.             | REVISION RECORD | DATE      | APPROVED |
| A                | ECN 1545        | 9/23/98   | CS       |
| B                | ECN 4261        | 6/18/07   | JE       |
| C                | ECN 9696        | 7/16/2019 | RB       |



**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
- CONNECTORS:**  
J1-J3: N FEMALE
- \* USE THIS SURFACE FOR NON-COHERENT COMBINING**
- ALL MOUNTING HOLES ARE THREADED 6-32 X .25 DEEP (12X)**

|                   |  |                                                                                                              |  |      |           |                                                                                                            |  |                                          |  |
|-------------------|--|--------------------------------------------------------------------------------------------------------------|--|------|-----------|------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|
|                   |  | UNLESS OTHERWISE SPECIFIED                                                                                   |  | OWN  | DATE      |  WERLATONE SINCE 1965 |  | 17 Jon Barrett Rd<br>Patterson, NY 12563 |  |
|                   |  | • INTERPRET DRAWING PER MIL-STD-100                                                                          |  | SD   | 7/16/2019 | TITLE                                                                                                      |  |                                          |  |
|                   |  | • CONFORMING PER ASME Y14.5M-2009                                                                            |  | CHK  | DATE      |                                                                                                            |  |                                          |  |
|                   |  | • PARENTHESES INFO FOR REF ONLY                                                                              |  | CS   | 7/16/2019 | OUTLINE                                                                                                    |  |                                          |  |
|                   |  | • DIMENSIONS ARE IN INCHES                                                                                   |  | ENGR | DATE      |                                                                                                            |  |                                          |  |
|                   |  | • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES                                                                  |  | NRGR | DATE      | SIZE CAGE CODE DWG NO                                                                                      |  | REV                                      |  |
|                   |  | • TOLERANCES:                                                                                                |  | QA   | DATE      |                                                                                                            |  |                                          |  |
|                   |  | ANGLES & 2°                                                                                                  |  | RLSE | DATE      | SCALE                                                                                                      |  | C                                        |  |
|                   |  | 3 PL & .005 [13]                                                                                             |  |      |           |                                                                                                            |  |                                          |  |
|                   |  | 2 PL & .015 [38]                                                                                             |  |      |           | 10034-500                                                                                                  |  |                                          |  |
|                   |  | • REMOVE ALL BURS AND SHARP EDGES R.0.1 MAX                                                                  |  |      |           |                                                                                                            |  |                                          |  |
|                   |  | • CONCENTRICITY MACHINED DIA. .002 FPM                                                                       |  |      |           | 1:1.5                                                                                                      |  | SHEET 1 OF 1                             |  |
|                   |  | • MACHINE TOOL HOLDING .003 FPM                                                                              |  |      |           |                                                                                                            |  |                                          |  |
| NEXT ASSY USED ON |  | THIRD ANGLE PROJECTION  |  |      |           |                                                                                                            |  |                                          |  |
| APPLICATION       |  |                                                                                                              |  |      |           |                                                                                                            |  |                                          |  |

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