



PRODUCT DATA SHEET

D10533

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: 800 - 2000 MHz
 Power: 300 W CW
 Insertion Loss: 0.45 dB Max.
 VSWR: 1.35:1 Max.
 Phase Balance: $\pm 5^\circ$ Max.
 Amplitude Balance: 0.3 dB Max.
 Isolation: 16 dB Min.

Mechanical Specifications:

Type: Connectorized
 Material: Aluminum 6061-T6
 Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Clear Iridite) RoHS Compliant Available
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Size: 3.5 x 3.5 x 1.5"

Connector Configurations:

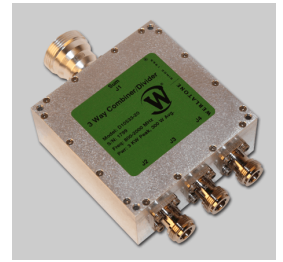
| Model | Sum Port (J1) | Input/Output (J2-J4) |
|-----------|---------------|----------------------|
| D10533-20 | 7/16 Female | N Female |

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.



WERLATONE

Model D10533

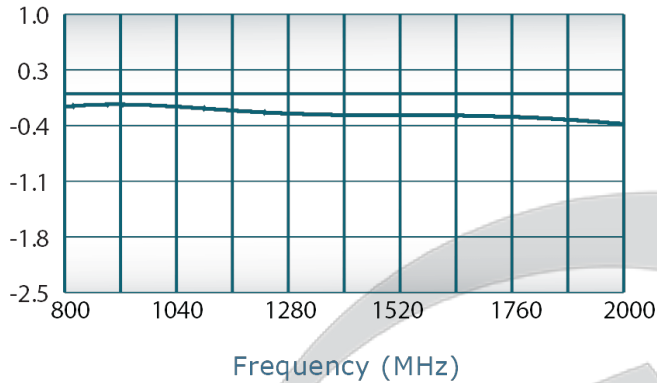


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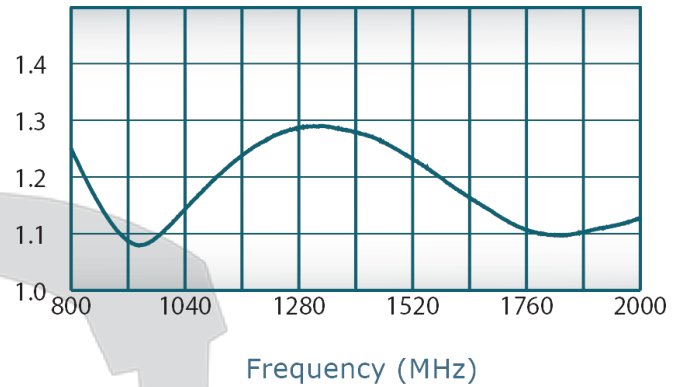
D10533

Performance Data (Specifications subject to change without notice):

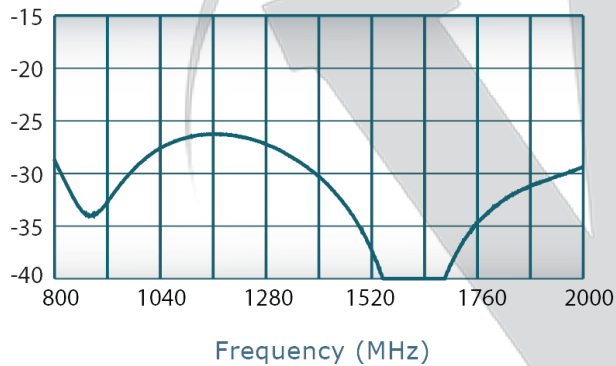
Insertion Loss:



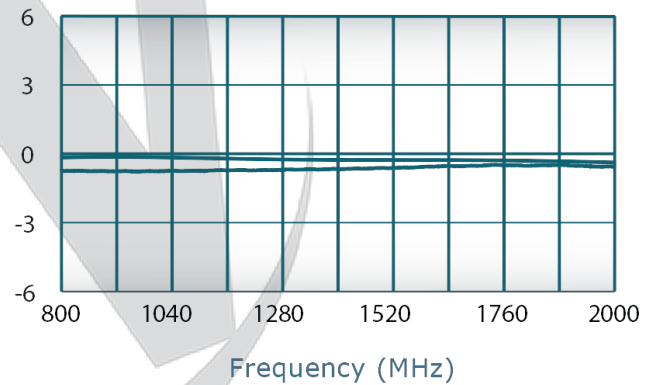
VSWR:



Isolation:



Phase Balance:

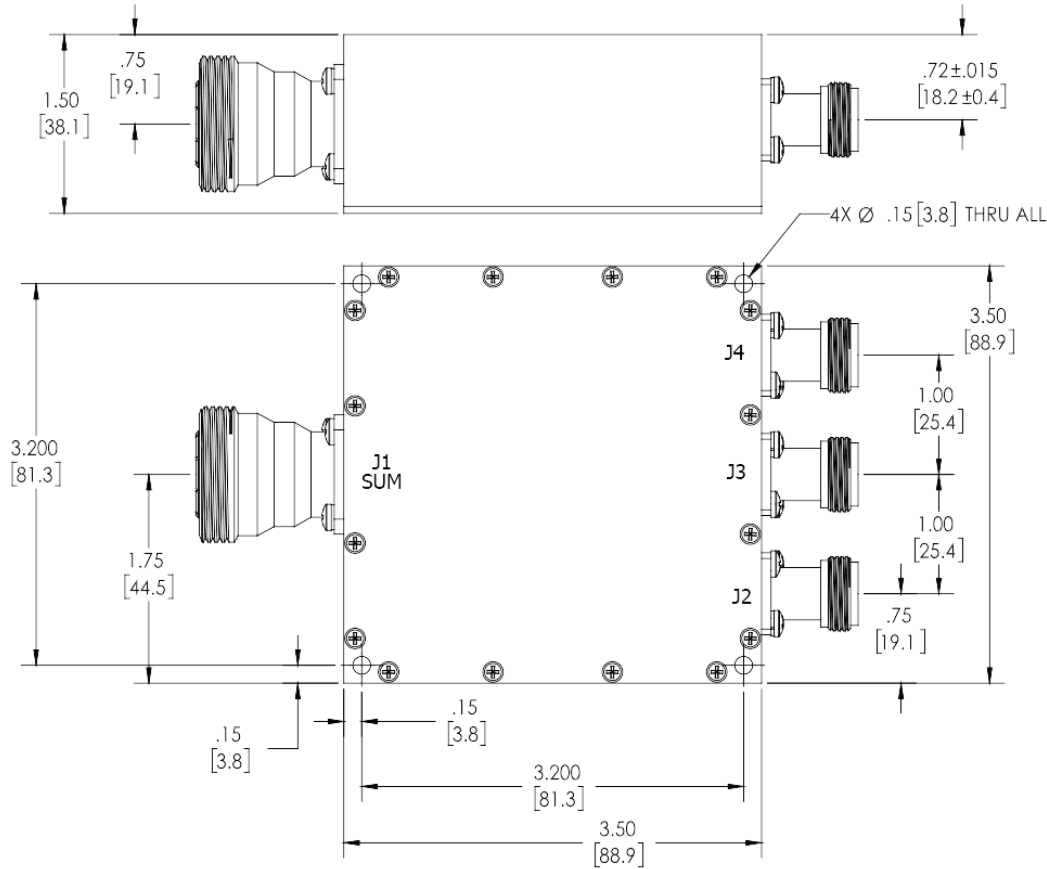


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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



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| REVISION HISTORY | | | |
|------------------|-----------------|-----------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| - | INITIAL-RELEASE | 3/11/2019 | BW |



NOTES: UNLESS OTHERWISE SPECIFIED

- MAT'L: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE II CLASS 3 (CLEAR/TRIValENT)**
- CONNECTORS:**
J1: 7-16 DIN (F)
J2-J4: N(F)

| | | | | | | |
|-------------|---------|--|--|-------|------------|---|
| | | UNLESS OTHERWISE SPECIFIED | | OWN | DATE |  WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563 |
| | | • INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C | | GP | 10/20/2015 | |
| | | • DIMENSIONS FOR ASME Y14.5M 2009 | | CHK | DATE | |
| | | • DIMENSIONS ARE IN INCHES (mm) | | CS | 10/20/2015 | |
| | | • DIMENSIONAL LIMITS APPLY BEFORE FINISHES | | ENGR | DATE | TITLE D10533-20 3-WAY COMBINER/DIVIDER |
| | | • TOLERANCES: | | | | |
| | | ANGLES: 4° | | | | |
| | | 3° R ± .005 (13) | | | | |
| | | 2° R ± .015 (4) | | | | SIZE CAGE CODE DWN NO REV |
| | | • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX | | QA | DATE | |
| | | • CONCENTRICITY MAXIMUM DIA: .001 FIM | | | | |
| | | • MACHINE TOOL FINISHES: .001 MAX | | | | |
| 21362-301 | D10533 | THIRD ANGLE PROJECTION  | | SCALE | 1:1 | SHEET 1 OF 1 |
| NEXT ASSY | USED ON | | | | | |
| APPLICATION | | | | | | |

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