



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

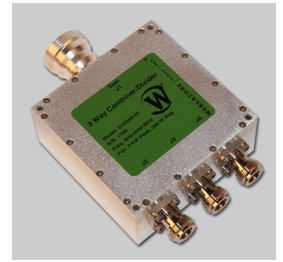
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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

Combiners In-Phase Connectorized

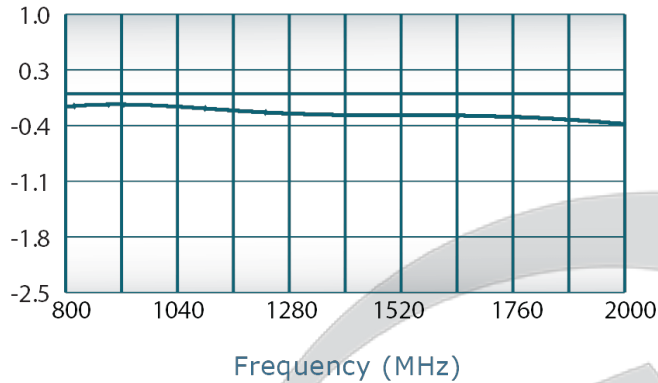


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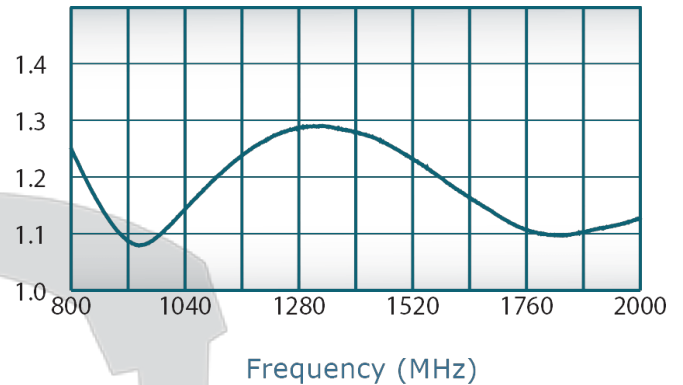
D10533

Performance Data (Specifications subject to change without notice):

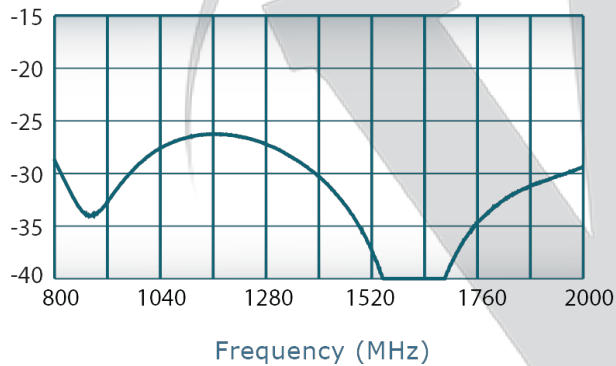
Insertion Loss:



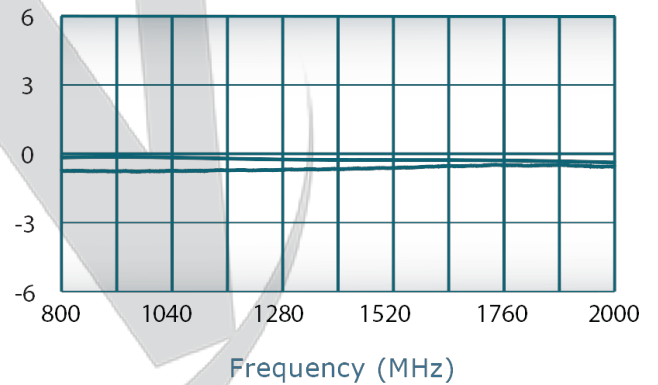
VSWR:



Isolation:



Phase Balance:

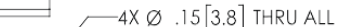


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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY



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

UNLESS OTHERWISE SPECIFIED

- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5-2009
- PARENTHEZICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES [mm]
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSING
- TOLERANCES:
 ANGLES $\pm 2^\circ$
 3 PL. $\pm .005$ [.13]
 2 PL. $\pm .015$ [.4]
 • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX
 • CONCENTRICITY MACHINED DIA: .002 FIM
 • MACHINE TOOL MISMATCH .003 MAX

DWN	DATE
GP	10/2
CHK	DATE
CS	10/2
ENGR	DATE
MFGR	DATE
QA	DATE
PLGR	DATE

 **WERLATON** SINCE 1965

17 Jon Barrett Rd
Patterson, NY 12563

5	TITLE	D10533-20 3-WAY COMBINER/DIVIDER
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SIZE	CAGE CODE	DWG NO
B	28812	21362-500

	REV
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THIRD ANGLE PROJECTION

	RESİ	DATE

SCALE 1:1

SHEET 1 OF 1

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