



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

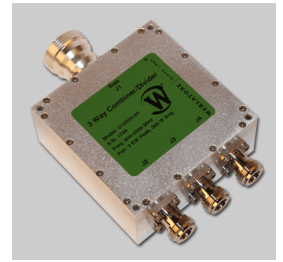
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

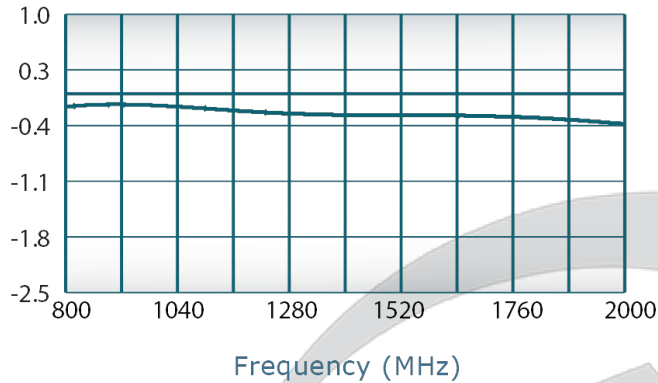


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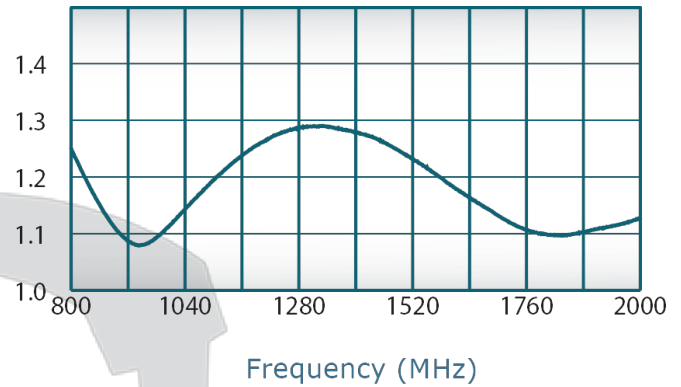
D10533

Performance Data (Specifications subject to change without notice):

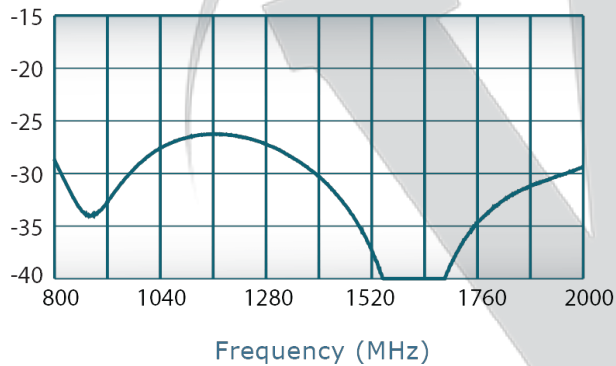
Insertion Loss:



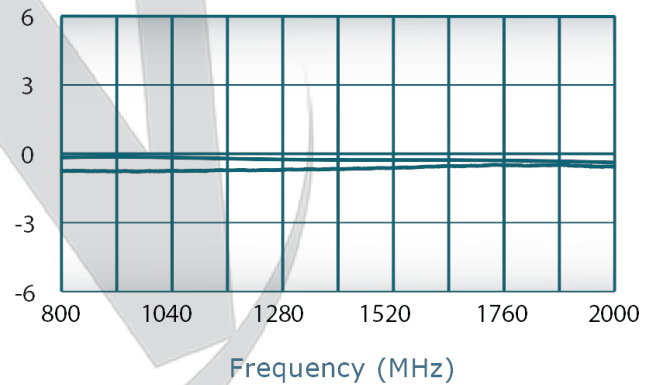
VSWR:



Isolation:



Phase Balance:

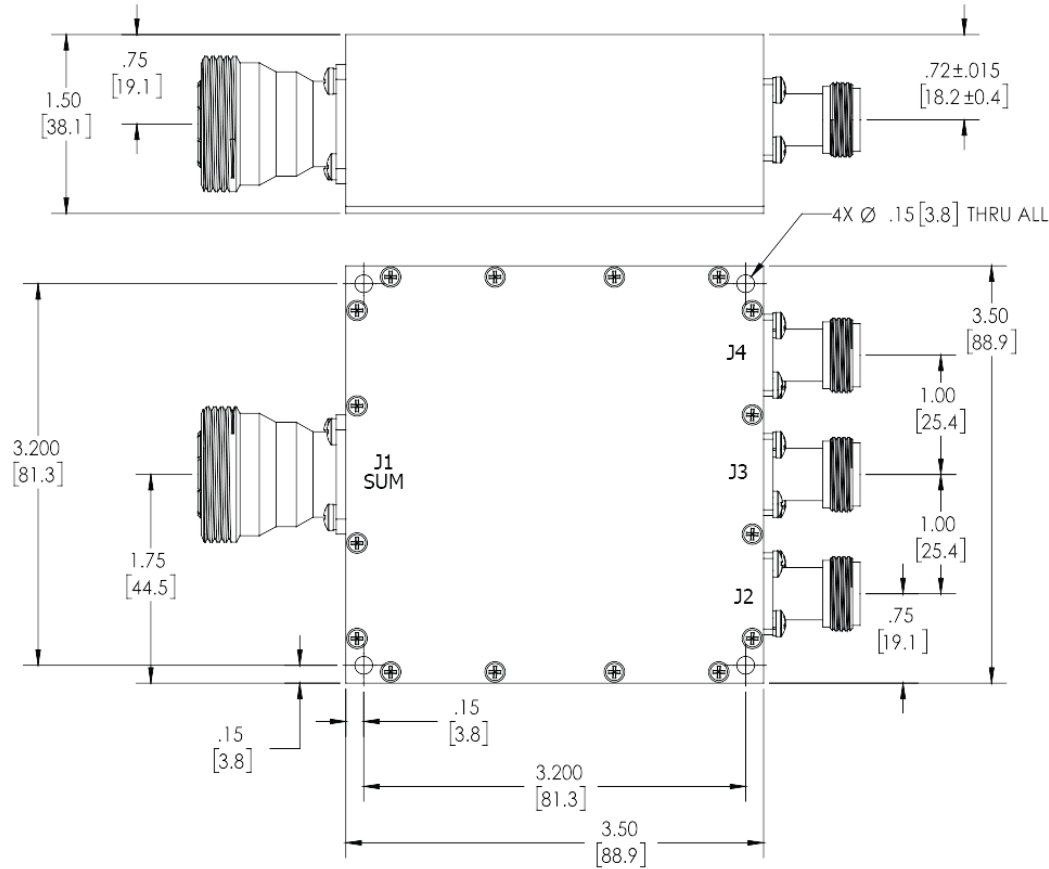


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	3/11/2019	BW



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	17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C	• DIMENSIONS FOR ASME Y14.5M 2009	GP	10/20/2015	 WERLATONE SINCE 1965	
• DIMENSIONS ARE IN INCHES (mm)	• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	CHK	DATE		
• TOLERANCES:		CS	10/20/2015		
• ANGLES: 45°	• 3/16 ± .005 (1.3)	ENGR	DATE		
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	• 2 IN ± .015 (1.3)	PRGR	DATE	TITLE D10533-20 3-WAY COMBINER/DIVIDER	
• CONCENTRICITY MACHINED DIA: .001 FIM	• MACHINE TOOL HOLDING: .001 MAX	QA	DATE		
THIRD ANGLE PROJECTION		WLSH	DATE	SIZE B 28812	DWG NO 21362-500
APPLICATION		SCALE		1:1	SHEET 1 OF 1

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