
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:	± 5° Max.
Amplitude Balance:	0.3 dB Max.
Isolation:	16 dB Min.

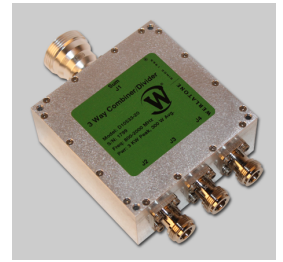
Mechanical Specifications:

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:

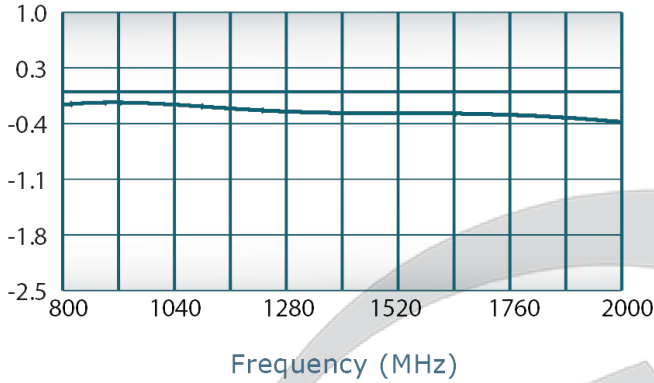
Model	Sum Port (J1)	Input/Output (J2-J4)
D10533-20	7/16 Female	N Female

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.

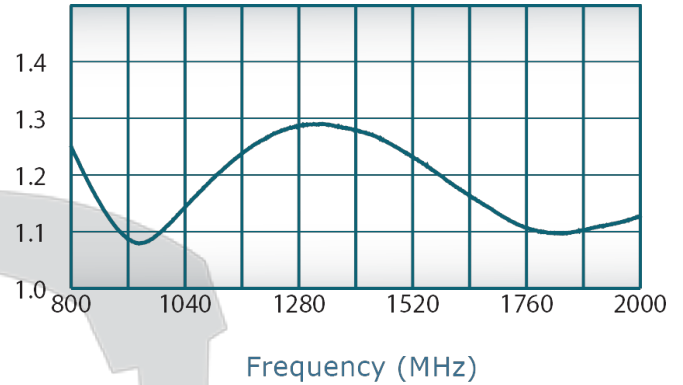


Performance Data (Specifications subject to change without notice):

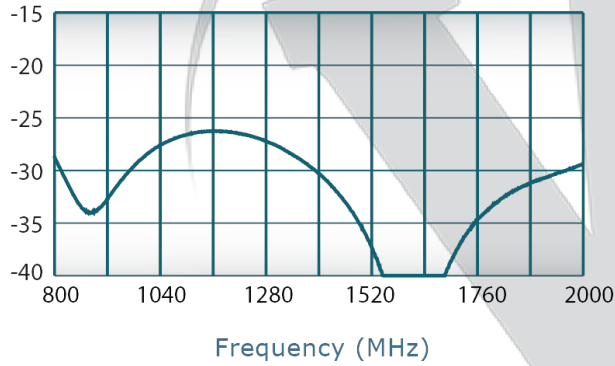
Insertion Loss:



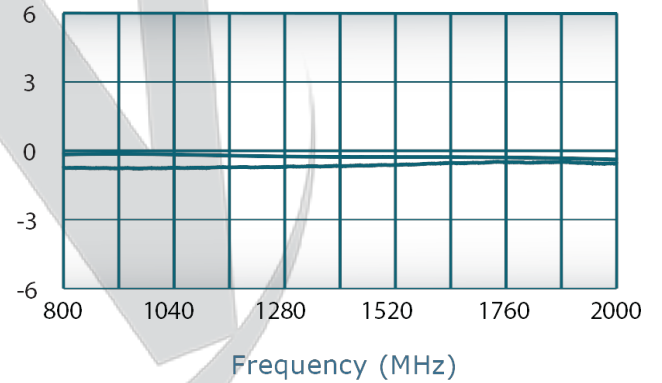
VSWR:



Isolation:

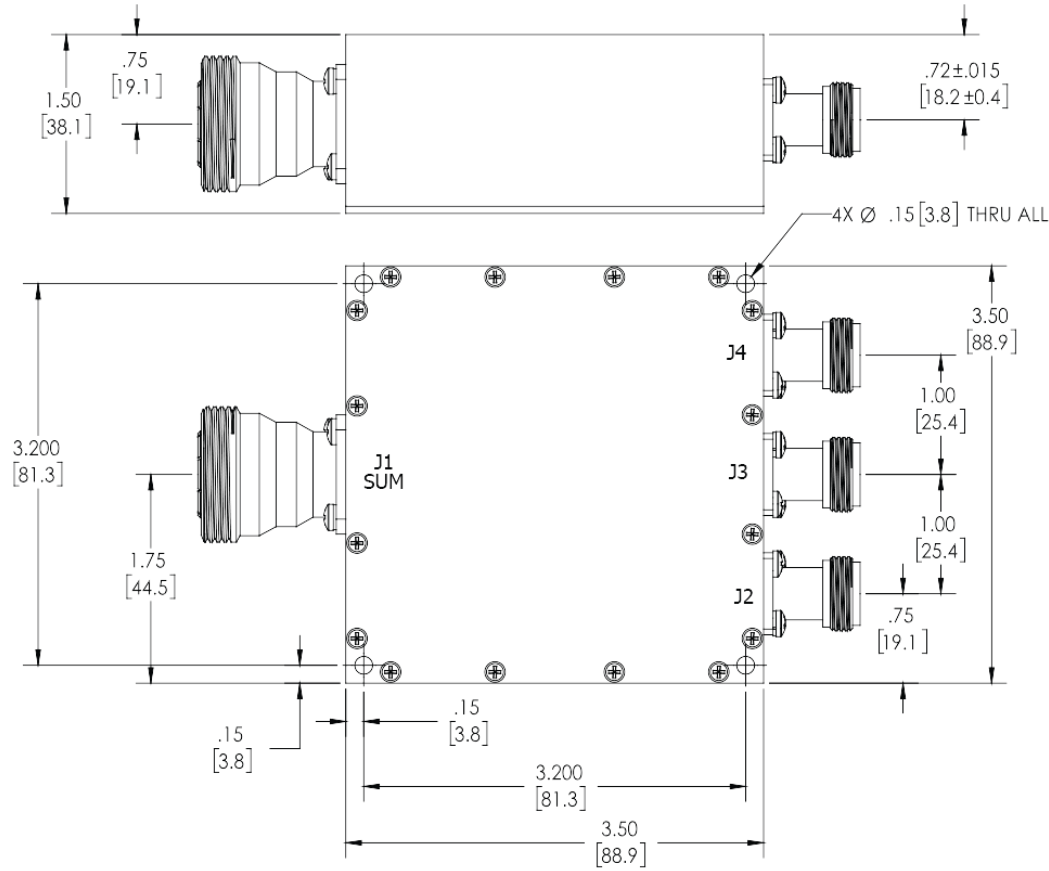


Phase Balance:



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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		DATE	10/20/2015	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563			
INTERRUPT DRAWING JAN ML-STD-300	GP	DATE					
DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE					
PARENTHESES FOR REF ONLY	CS	DATE					
DIMENSIONS ARE IN INCHES (mm)	ENGR	DATE	10/20/2015	TITLE	D10533-20 3-WAY COMBINER/DIVIDER		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DATE			SIZE	CAGE CODE	DWG NO	REV
TOLERANCES:	DATE			B	28812	21362-500	-
ANGLES 4 2°	DATE			SCALE	1:1		SHEET 1 OF 1
3/8 ± .005 (.13)	DATE						
2/R ± .015 (.4)	DATE						
REMOVE ALL BURS AND SHARP EDGES R.01 MAX	DATE						
CONCENTRICITY MACHINED DIA: .002 FIM	DATE						
MACHINE TOOL HOLDING: .002 MAX	DATE						
APPLICATION	DATE						
THIRD ANGLE PROJECTION							

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