

PRODUCT DATA SHEET

D5829

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: 20 - 500 MHz
Power: 400 W CW
Insertion Loss: 0.75 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.3 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: 7 lbs.
Size: 12.0 x 7.75 x 2.25"

Connector Configurations:

Model	Sum Port (J9)	Input/Output (J1-J8)
D5829-10	N Female	N Female
D5829-12	N Female	SMA
D5829-20	7/16 Female	N Female

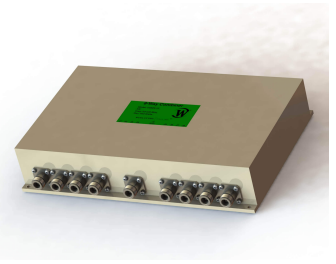
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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 D5829

Combiners In-Phase Connectorized

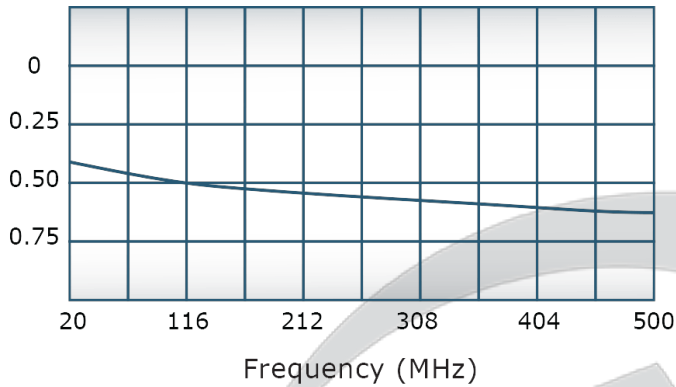


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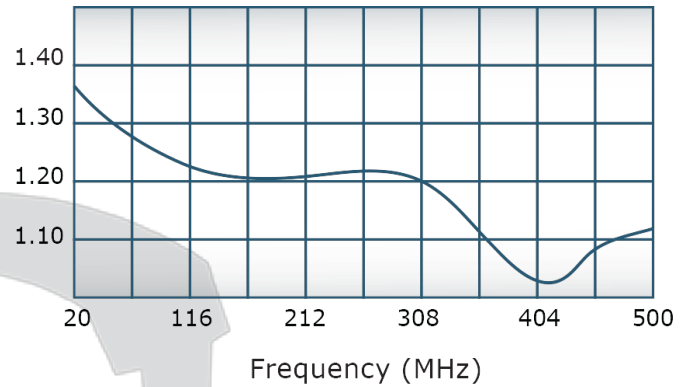
D5829

Performance Data (Specifications subject to change without notice):

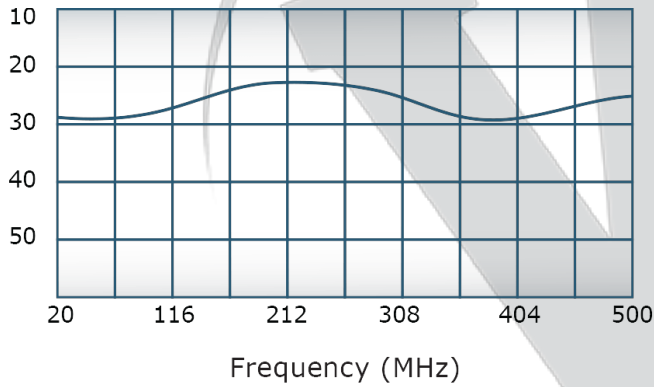
Insertion Loss:



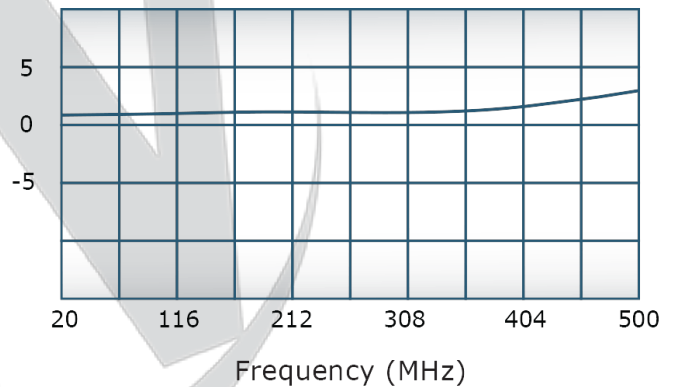
VSWR:



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

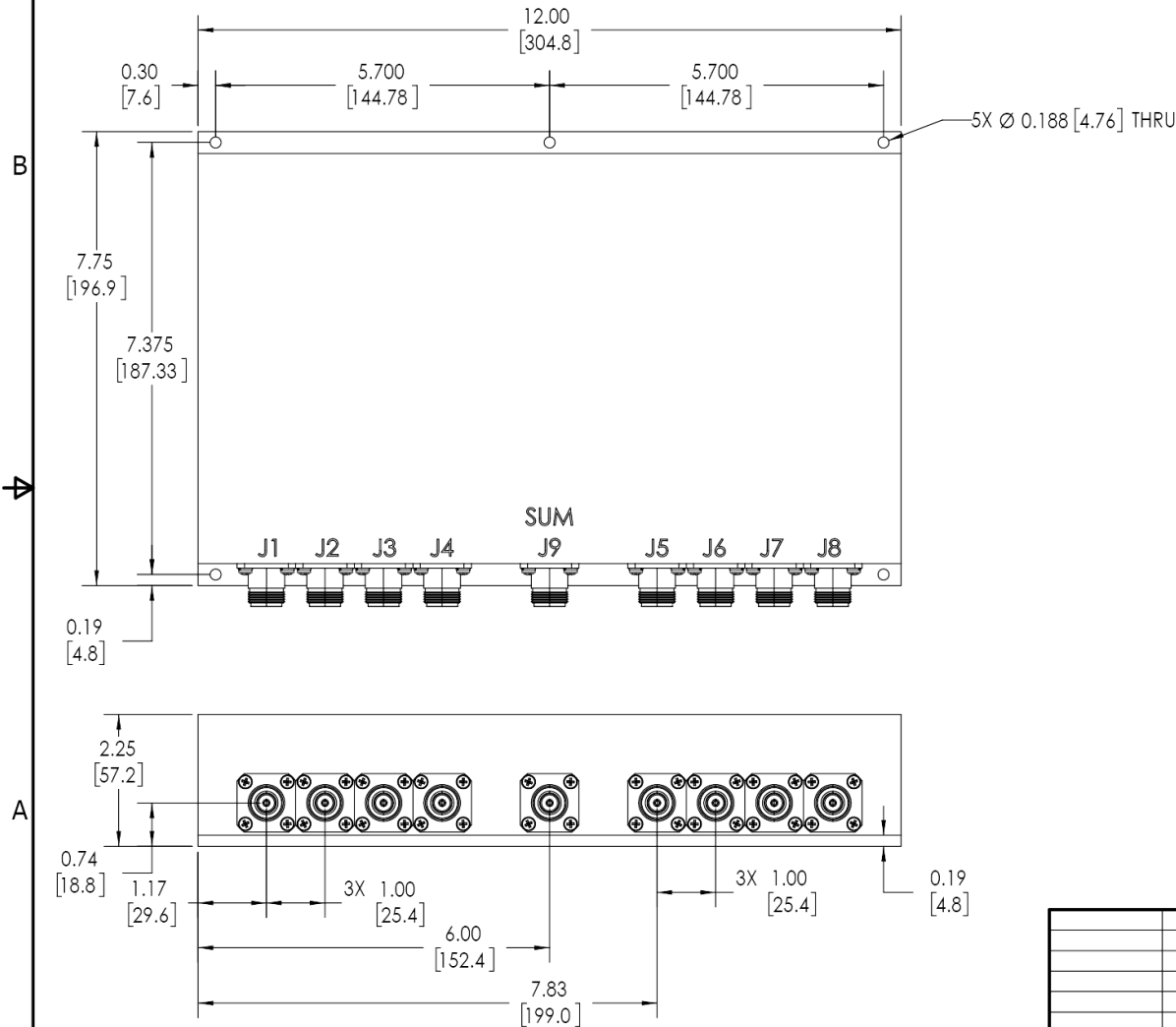
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/21/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS: J1-J9: N FEMALE**



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN MIL-STD-100		SD	10/21/2019		
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE		
		PARENTHESES FOR REF ONLY		CS	10/21/2019		
		DIMENSIONS ARE IN INCHES		ENGR	DATE		
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INFR	DATE	OUTLINE SIZE CAGE CODE DWS NO 10558-500	
		TOLERANCES:		QA	DATE		
		ANGLES ± 2°		RLSE	DATE		
		3 PL ± .005 [13]					
		2 PL ± .015 [38]					
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
		CONCENTRICITY MACHINED DIA. .002 FIM					
		MACHINE TOOL MISMATCH .003 FIM					
		THIRD ANGLE PROJECTION					
NEXT ASSY		USED ON					
APPLICATION				SHEET 1 OF 1			

 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
TITLE			
OUTLINE			
SIZE	CAGE CODE	DWG NO	REV
B		10558-500	A
SCALE	SHEET 1 OF 1		
1:2			

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