

PRODUCT DATA SHEET

D5517

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: 100 - 1000 MHz
Power: 250 W CW
Insertion Loss: 0.85 dB Max.
VSWR: 1.50:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.35 dB Max.
Isolation: 15 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: 12.5 lbs.
Size: 14.7 x 11.4 x 2.5"

Connector Configurations:

Model	Sum Port (J5)	Input/Output (J1-J4)
D5517-10	N Female	N Female
D5517-12	N Female	SMA
D5517-20	7/16 Female	N Female
D5517-41	SC Female	N Female

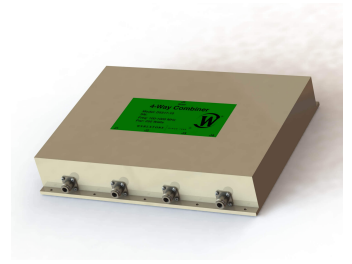
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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 D5517

Combiners In-Phase Connectorized

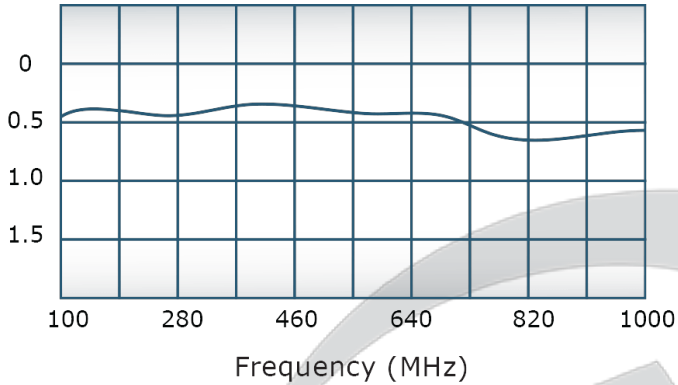


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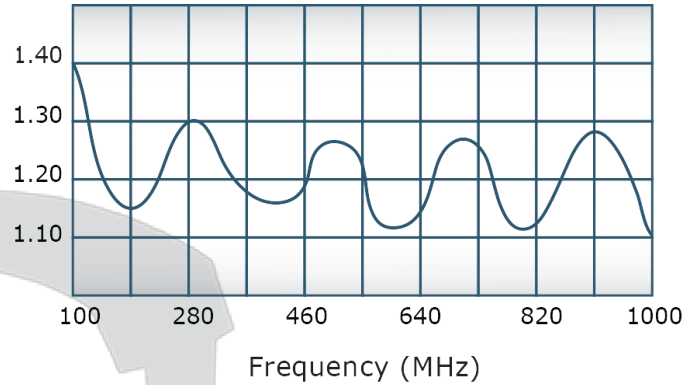
D5517

Performance Data (Specifications subject to change without notice):

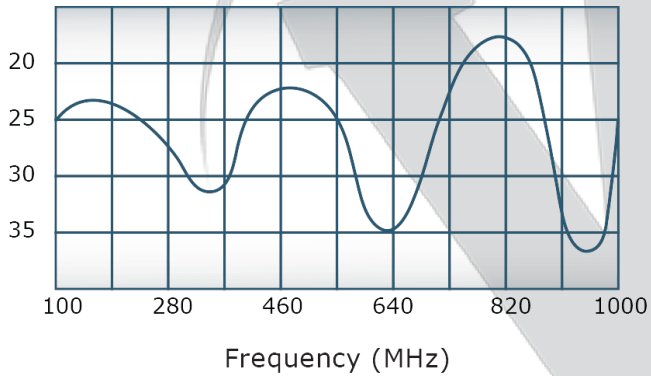
Insertion Loss:



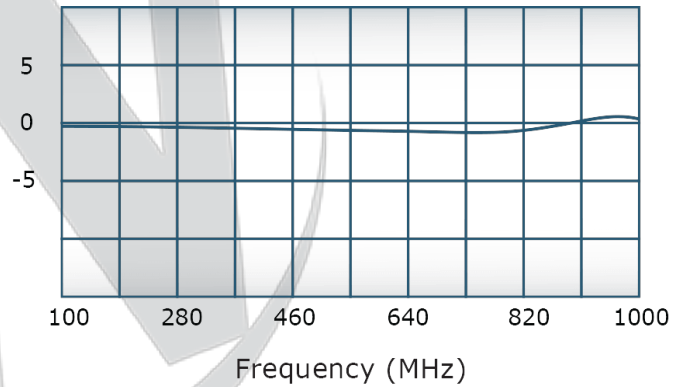
VSWR:



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

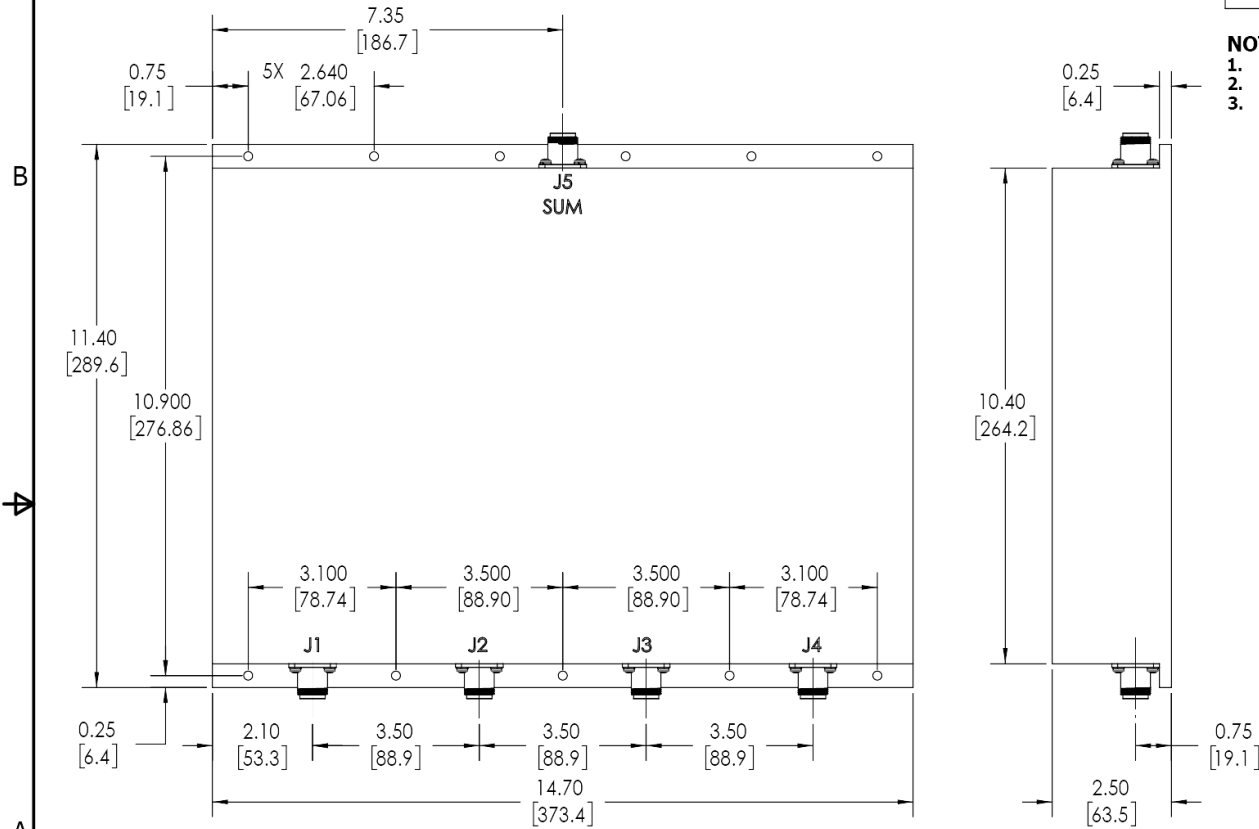
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:
J1-J5: N FEMALE**



		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING 100 MIL-STD-100		SD	DATE				
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
		PARENTHESES FOR REF ONLY		CS	DATE				
		DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE			
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES				OUTLINE			
		TOLERANCES:		MFR	DATE				
		ANGLES ± 2°		QA	DATE	CAGE CODE		DWG NO	
		3 PL ± .005 [13]		RLSE	DATE	B		REV	
		2 PL ± .015 [38]				10501-500		A	
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
		CONCENTRICITY MACHINED DIA. .002 FIM							
		MACHINE TOOL MISMATCH .003 FIM							
NEXT ASSY		USED ON				SCALE		SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION				1:2.5			

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