

## 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

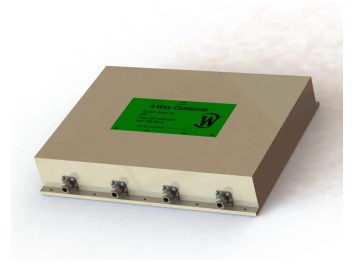
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

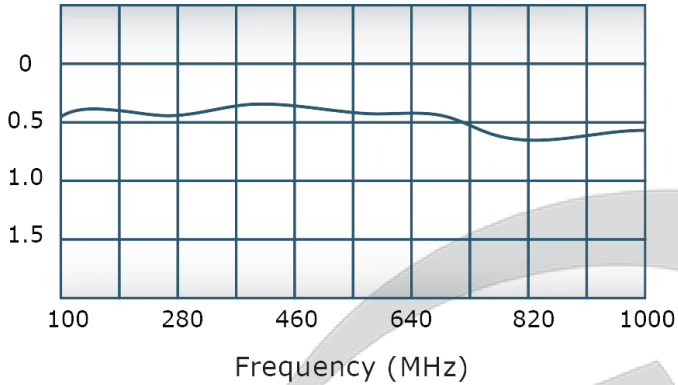


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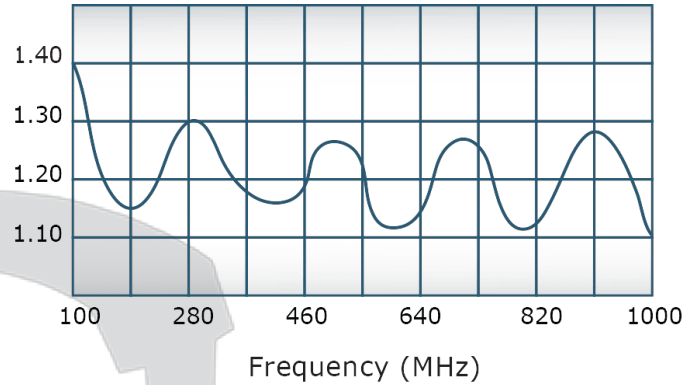
D5517

### Performance Data (Specifications subject to change without notice):

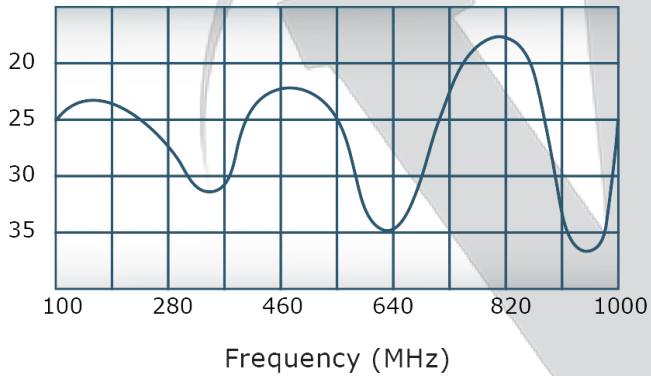
Insertion Loss:



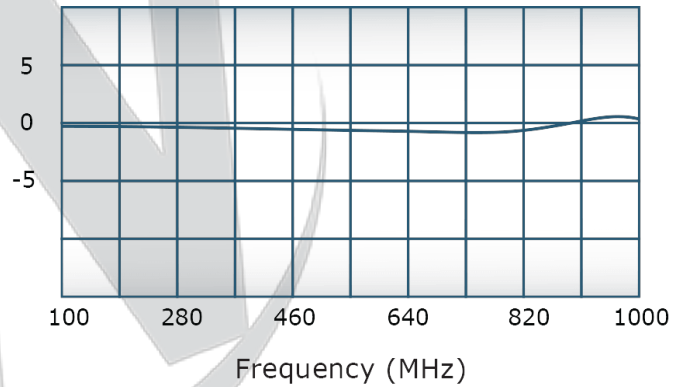
VSWR:



Isolation:



Phase Balance:



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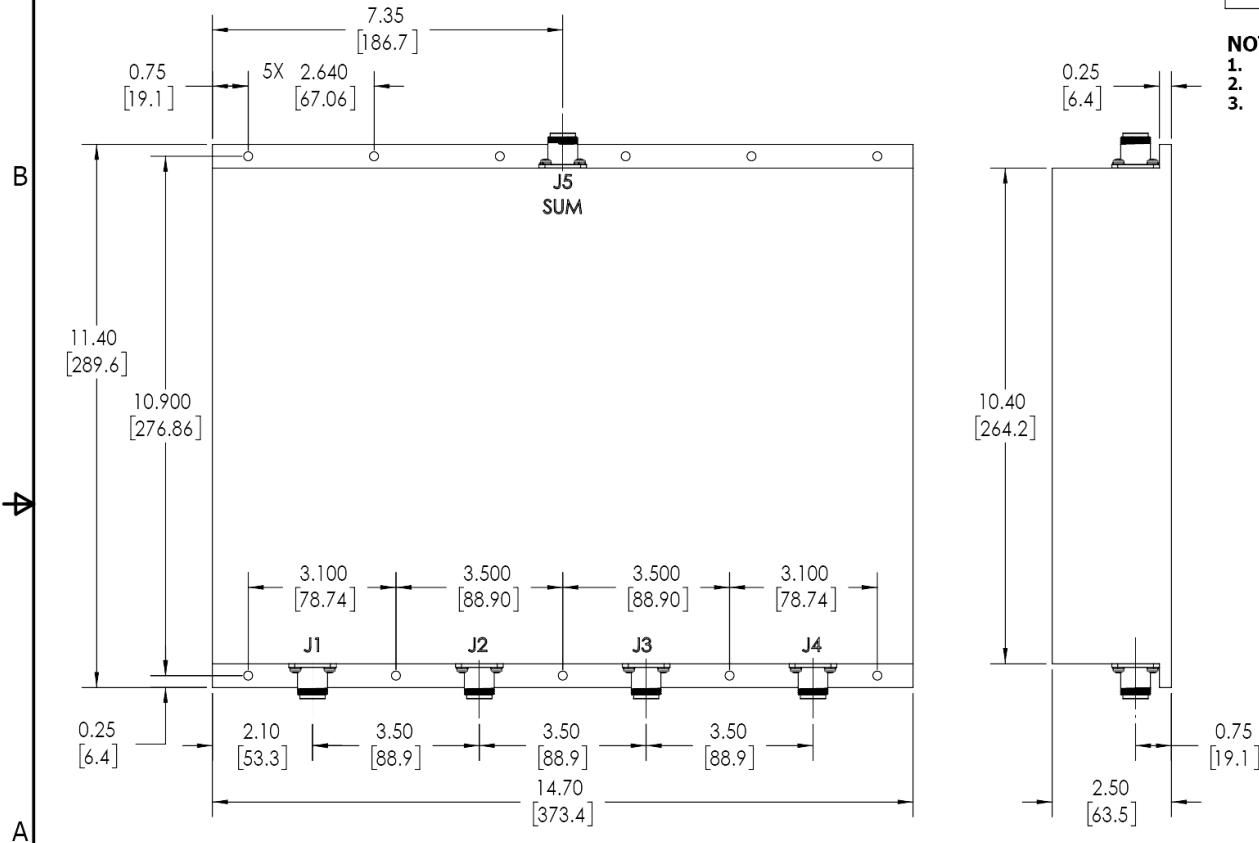
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB

**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	 <b>WERLATONE</b> SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	10/18/2019				
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
		PARENTHESES ARE FOR REFERENCE ONLY		CS	10/18/2019				
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES				<b>OUTLINE</b>			
		TOLERANCES:							
		ANGLES ± 2°							
		3 PL ± .005 (13)							
		2 PL ± .015 (38)							
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		INPR	DATE	SIZE	CAGE CODE	DWG NO.	REV
		CONCENTRICITY MACHINED DIA. .002 FIM		QA	DATE	B		10501-500	A
		MACHINE TOOL MISMATCH .003 MAX				SCALE			
NEXT ASSY		USED ON		RLSE	DATE	1:2.5			
APPLICATION		THIRD ANGLE PROJECTION 							SHEET 1 OF 1

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