



PRODUCT DATA SHEET

D5816

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: 200 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.35:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.25 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: 2.5 lbs.
Size: 5.0 x 5.1 x 1.5"

Connector Configurations:

Model	Sum Port (J5)	Input/Output (J1-J4)
D5816-10	N Female	N Female
D5816-12	N Female	SMA Female
D5816-13	N Female	BNC Female
D5816-102	SMA	SMA

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 D5816

Combiners In-Phase Connectorized

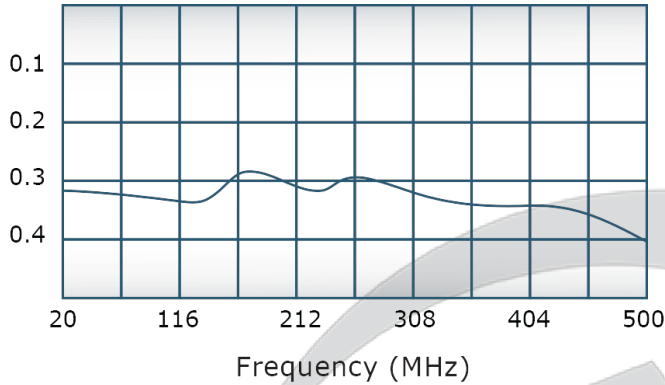


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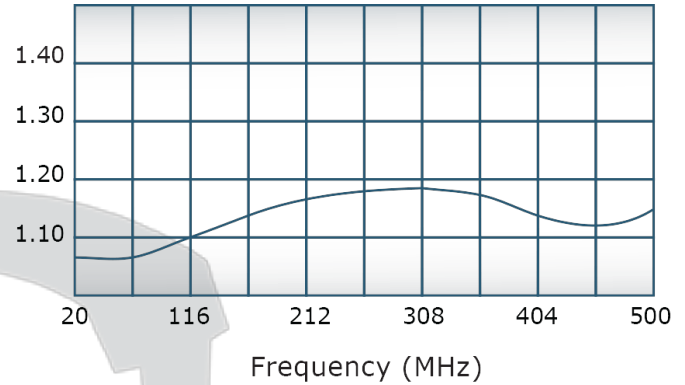
D5816

Performance Data (Specifications subject to change without notice):

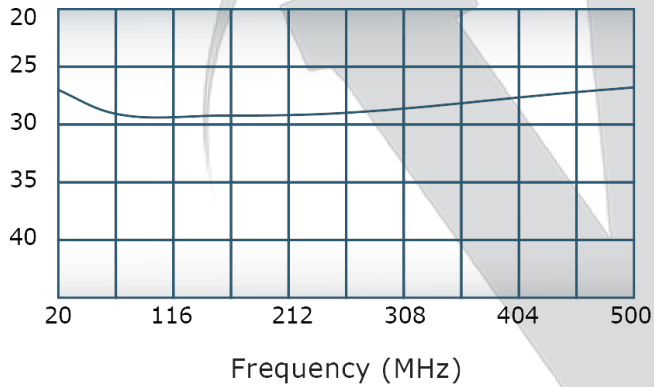
Insertion Loss:



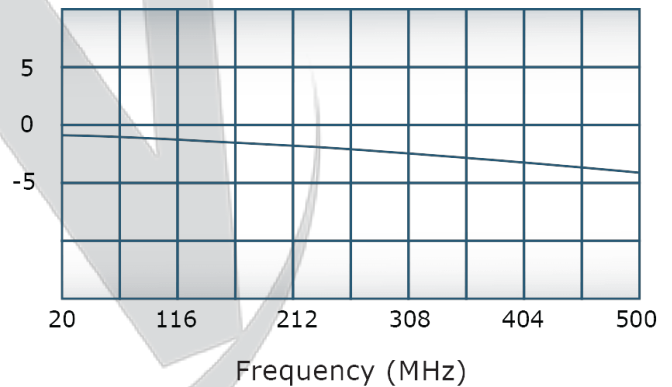
VSWR:



Isolation:



Phase Balance:

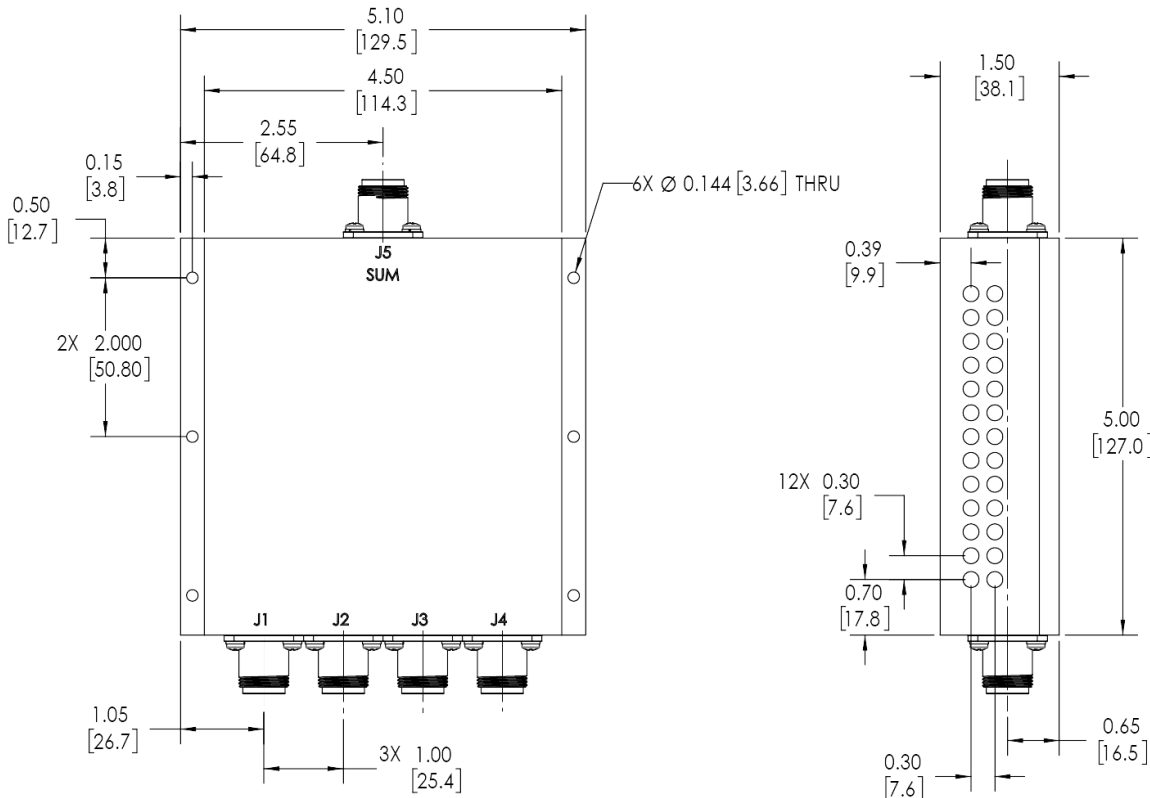


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NOTES: UNLESS OTHERWISE SPECIFIED

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

REVISION HISTORY

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

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING 1001 MIL-STD-100		SD	10/18/2019			
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE			
		PARENTHESES FOR REF ONLY		CS	10/18/2019		TITLE	
		DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE		
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		DATE	DATE			
		TOLERANCES:		DATE	DATE			
		ANGLES ± 2°		DATE	DATE			
		3 PL ± .005 [13]		DATE	DATE	SIZE CAGE CODE DWG NO		
		2 PL ± .015 [38]		DATE	DATE			
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	DATE			
		CONCENTRICITY MACHINED DIA. .002 FIM		DATE	DATE			
		MACHINE TOOL MISMATCH .003 FIM		DATE	DATE	SCALE		
		THIRD ANGLE PROJECTION 		DATE				
		APPLICATION		DATE				
		NEXT ASSY USED ON		DATE				
						10550-500		REV
								A
						1:1.5		SHEET 1 OF 1

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