



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

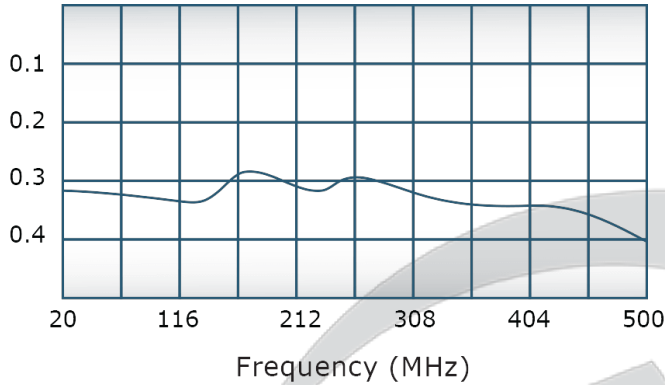


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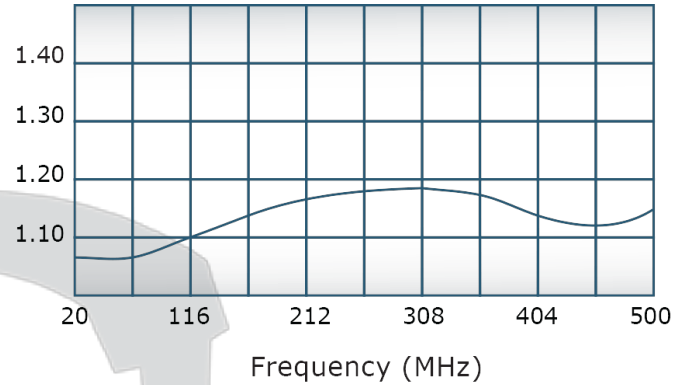
D5816

Performance Data (Specifications subject to change without notice):

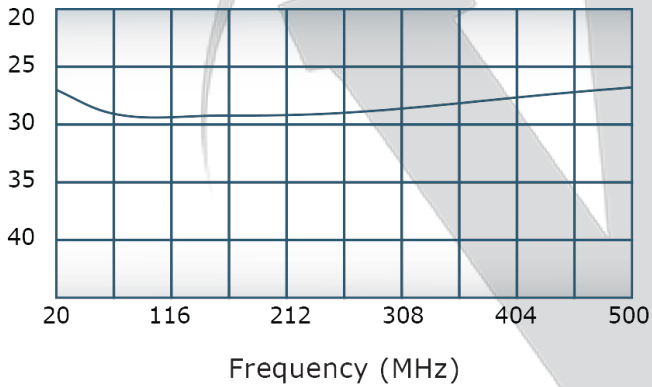
Insertion Loss:



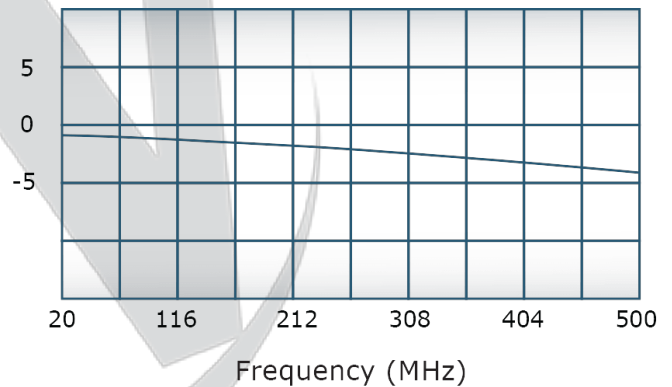
VSWR:



Isolation:



Phase Balance:

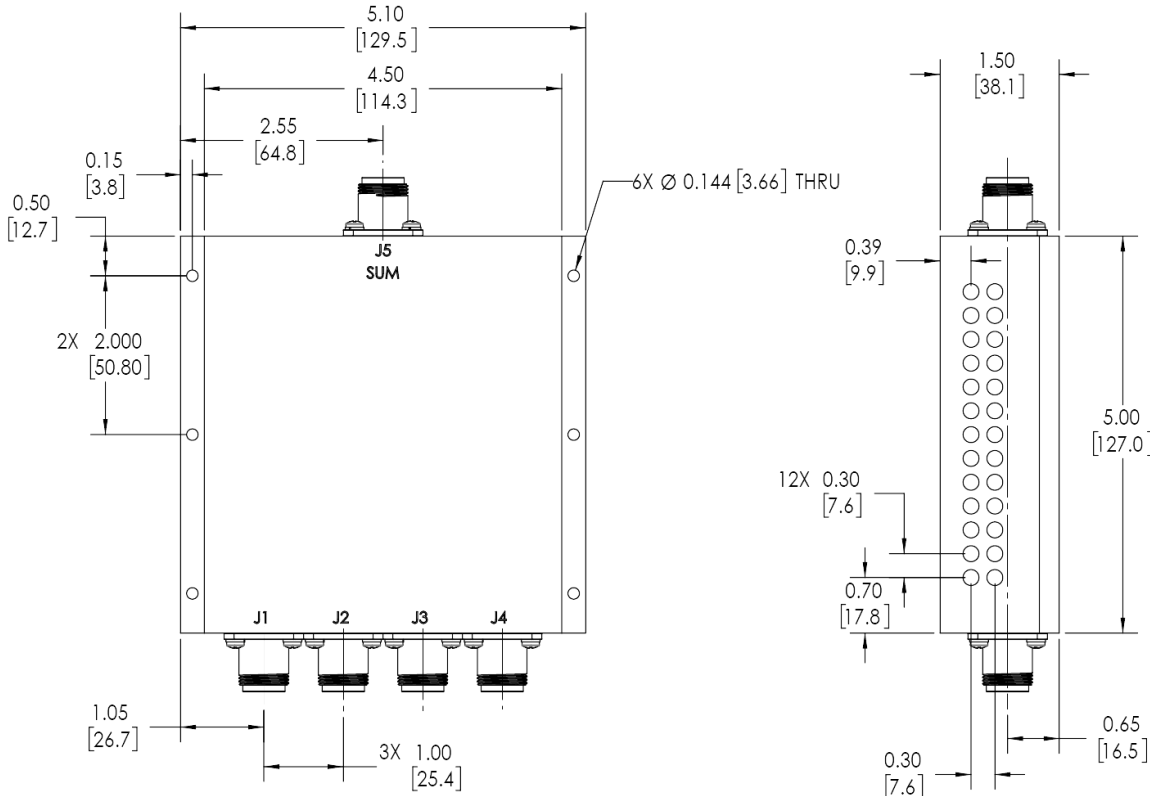


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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1. MATERIAL: ALUMINUM 6061-T6**
- 2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- 3. 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 IN ACCORDANCE WITH MIL-STD-100		SD	DATE	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	OUTLINE SIZE CAGE CODE DWG NO B 10550-500
PARENTHESES FOR REF ONLY		CS	DATE	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SCALE 1:1.5
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE	
TOLERANCES:		QA	DATE	REV A
ANGLES ± 2° 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		RLSE	DATE	
NEXT ASSY	USED ON	APPLICATION		
THIRD ANGLE PROJECTION		SHEET 1 OF 1		

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