



## 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:	± 5° 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.

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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

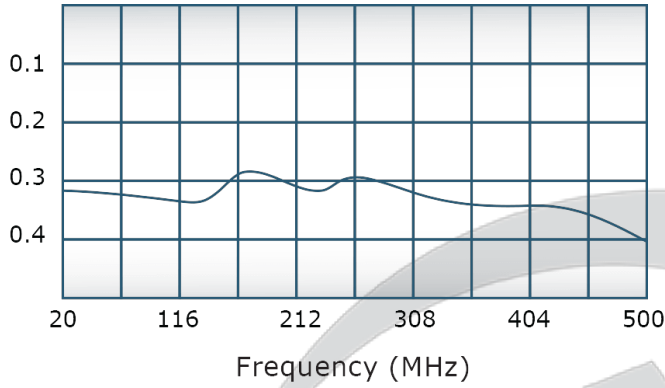


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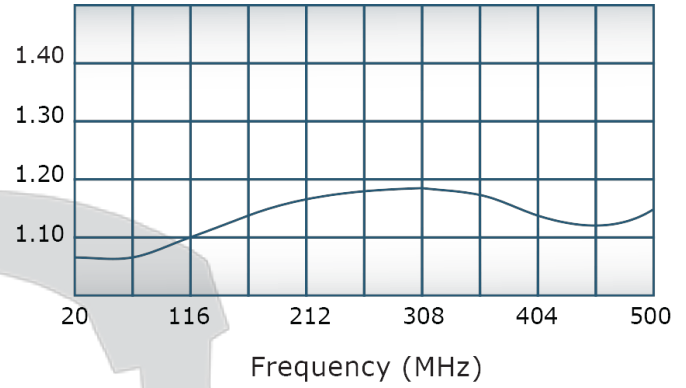
D5816

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

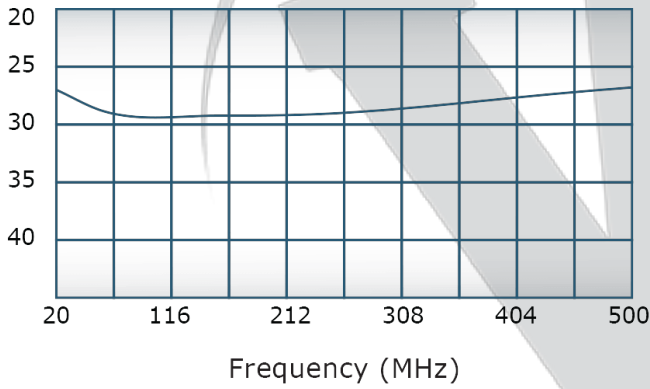
Insertion Loss:



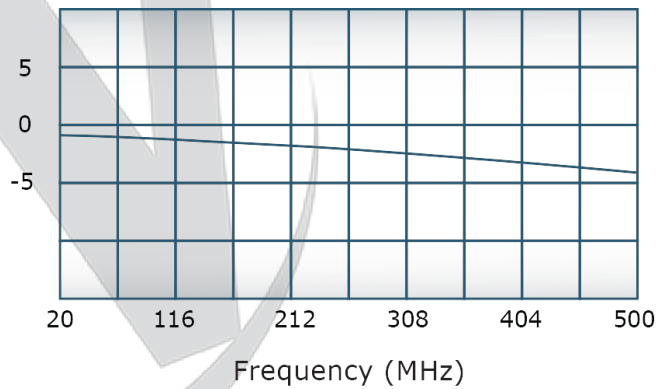
VSWR:



Isolation:



Phase Balance:



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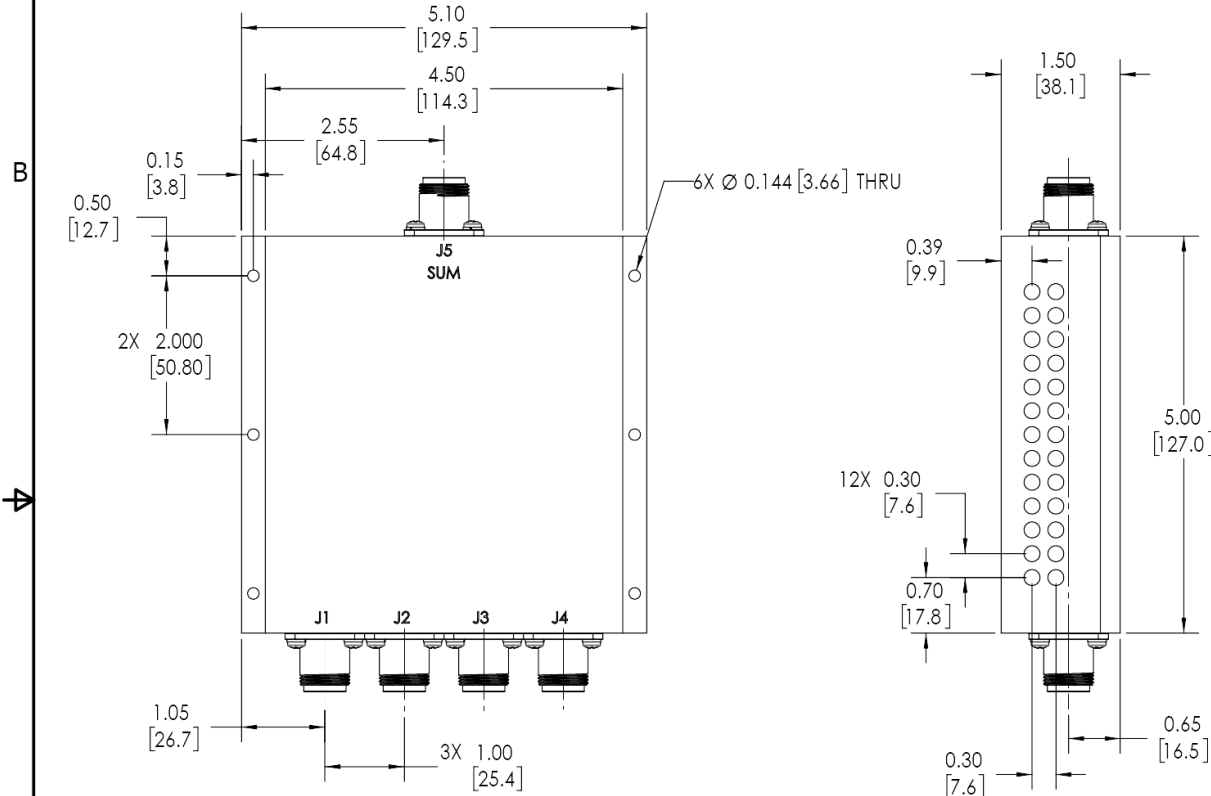
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB

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

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