


**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.

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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

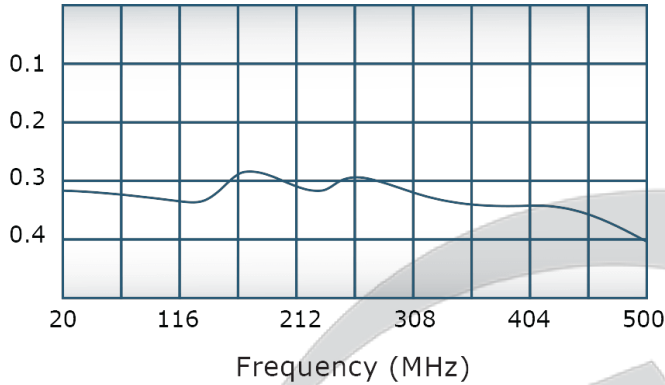


## PRODUCT DATA SHEET

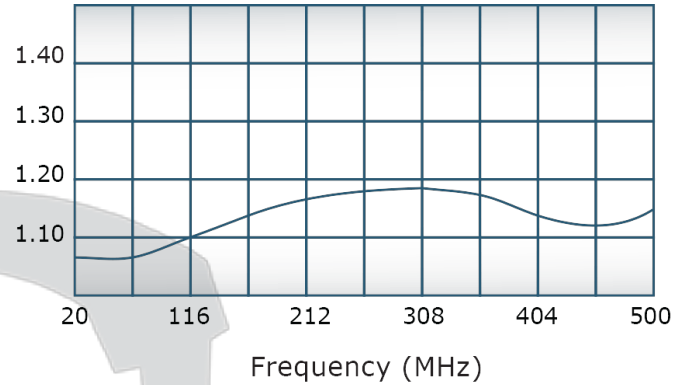
D5816

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

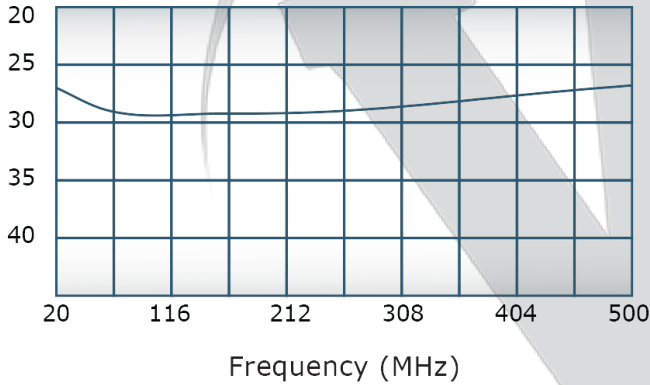
Insertion Loss:



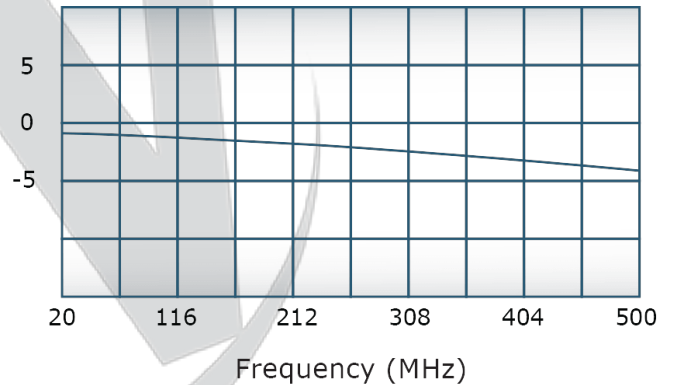
VSWR:



Isolation:



Phase Balance:



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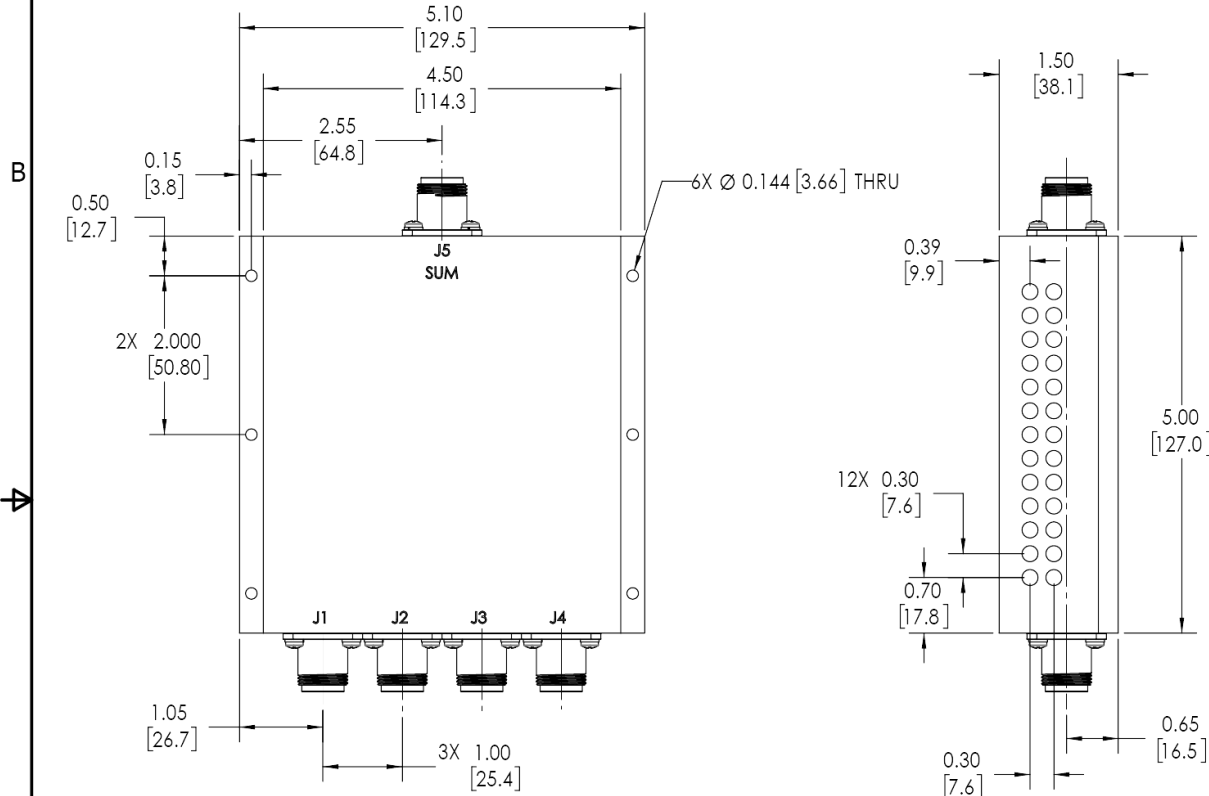
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB

**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		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE		
TOLERANCES:	QA	DATE		
ANGLES = 2°	RLSE	DATE		
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				
NEXT ASSY	USED ON	SCALE	1:1.5	REV A
APPLICATION	THIRD ANGLE PROJECTION	SIZE	B	CAGE CODE
		DWG NO	10550-500	
				SHEET 1 OF 1

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