


**PRODUCT DATA SHEET**
**D4047**

**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:                      420 - 450 MHz  
 Power:                              2000 W CW  
 Insertion Loss:                0.3 dB Max.  
 VSWR:                              1.35:1 Max.  
 Phase Balance:                 $\pm 4^\circ$  Max.  
 Amplitude Balance:         0.2 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:                            3.0 lbs.  
 Size:                                6.0 x 5.0 x 2.25"

**Connector Configurations:**

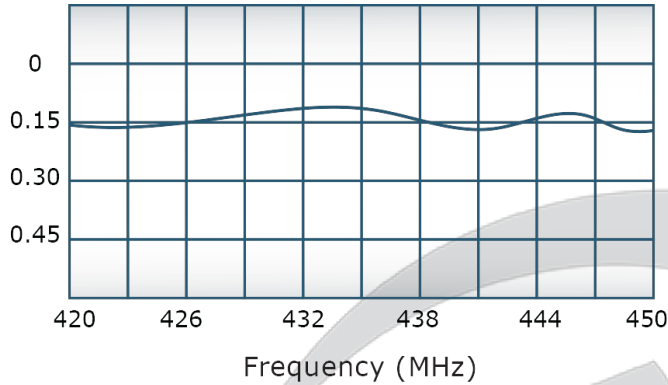
Model	Sum Port (J5)	Input/Output (J1-J4)
D4047-10	N Female	N Female
D4047-20	7/16 Female	N Female

**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.

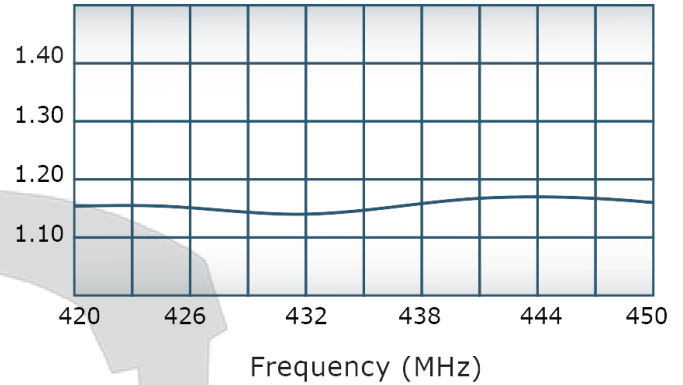


## Performance Data (Specifications subject to change without notice):

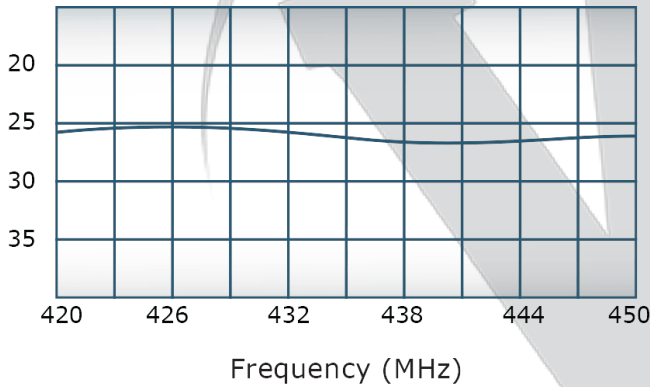
Insertion Loss:



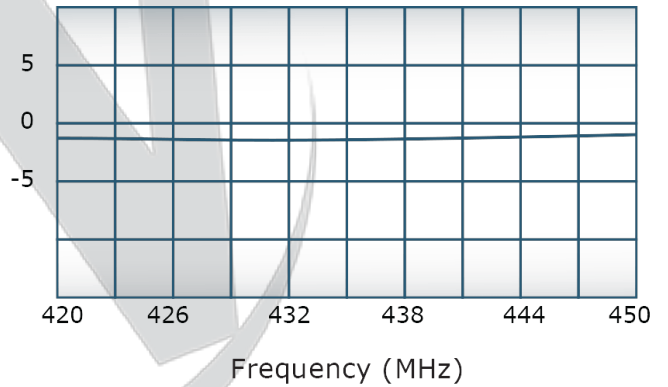
VSWR:



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

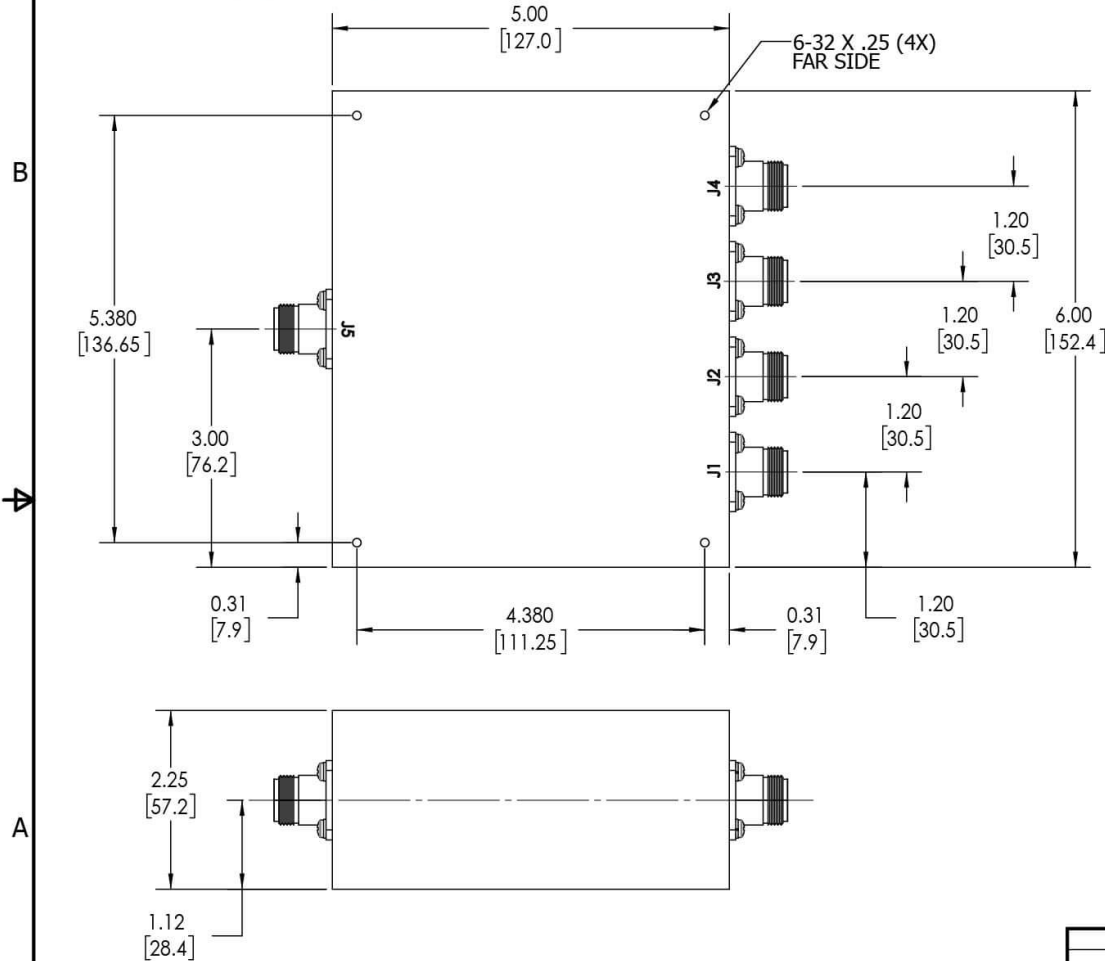
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	9/10/2019	RB

**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**

**\* MUST BE MOUNTED TO HEATSINK WITH 4 MOUNTING SCREWS. A THERMAL CONDUCTIVE GREASE SHOULD BE USED. UNBALANCED POWER NOT TO EXCEED 200 WATTS AT 60°C BASEPLATE TEMP.**



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 PARENTHESES FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LINES APPLY BEFORE PROCESSES		SD	9/10/2019	
TOLERANCES: ANGLES ± 2° 3 PL ± .005 [1.3] 2 PL ± .015 [3.8] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA: .002 FIM MACHINE TOOL MISMATCH .003 MAX.		CHK	DATE	<b>OUTLINE</b> TITLE SIZE CAGE CODE DWG NO <b>B 10422-500</b>
NEXT ASSY USED ON		CS	9/10/2019	
APPLICATION		ENGR	DATE	REV
THIRD ANGLE PROJECTION		INFR	DATE	A
		QA	DATE	
		RLSE	DATE	
			SCALE	SHEET 1 OF 1
			1:1.5	

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