



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.



WERLATONE

Model D4047

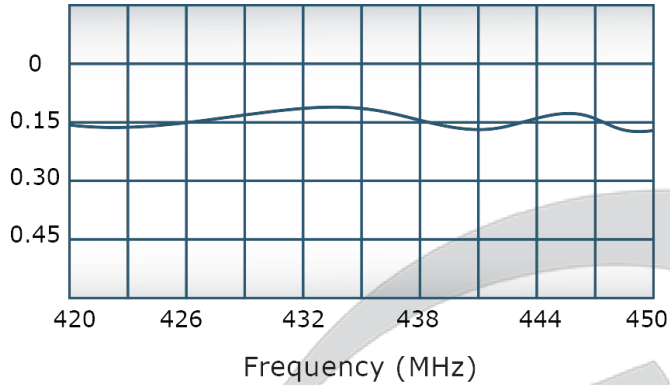


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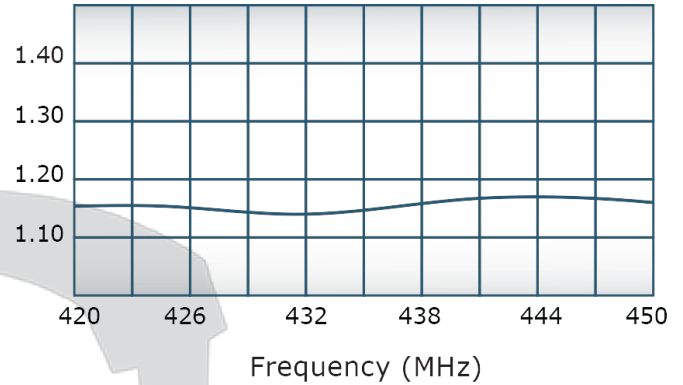
D4047

Performance Data (Specifications subject to change without notice):

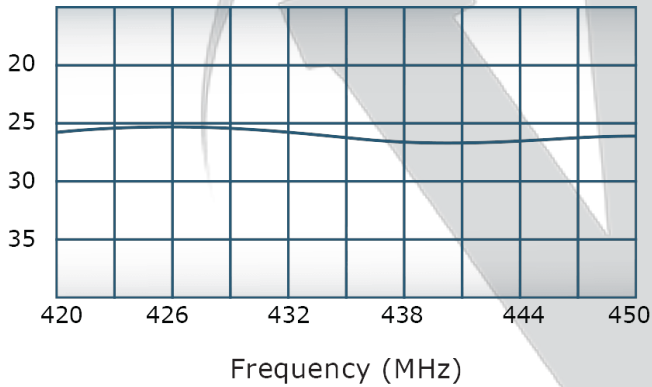
Insertion Loss:



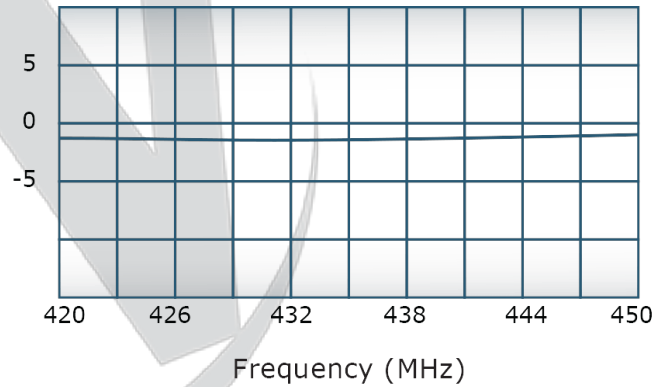
VSWR:



Isolation:



Phase Balance:



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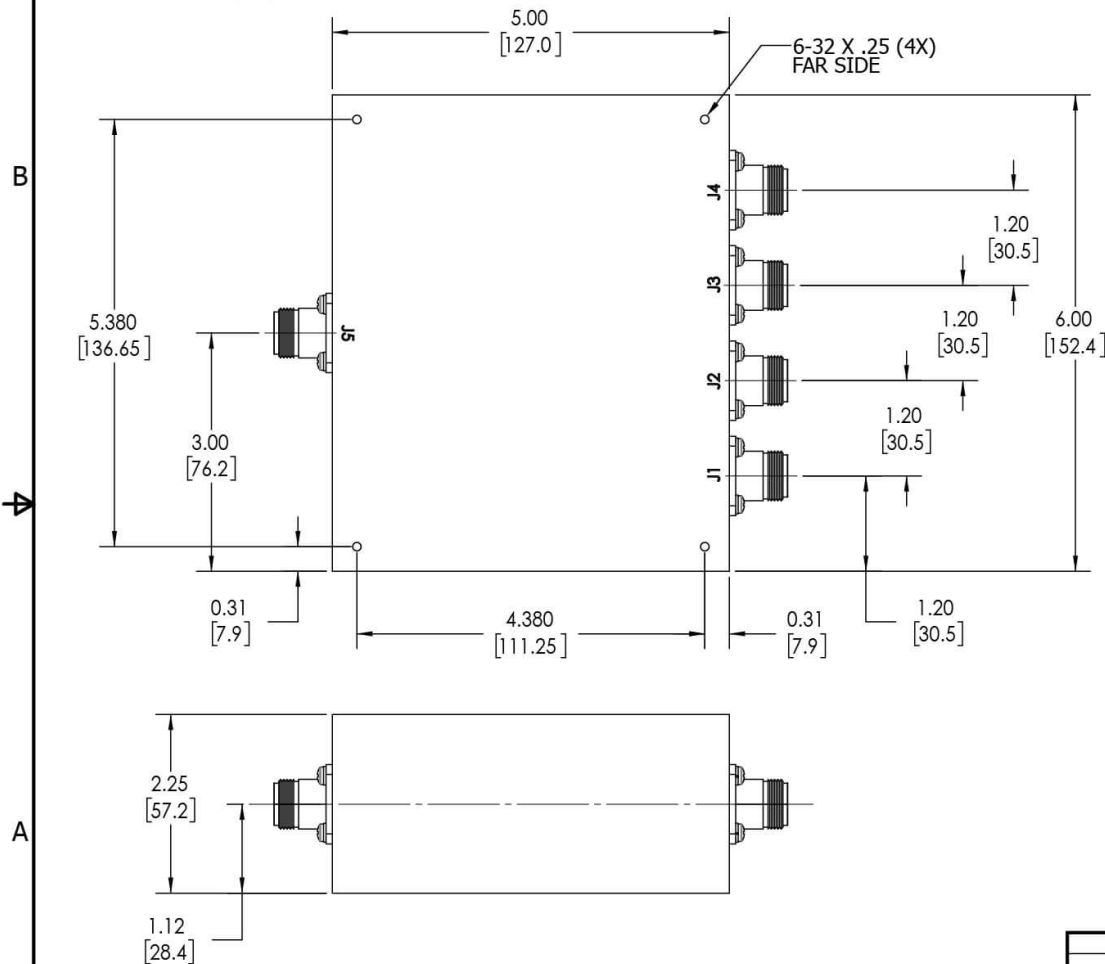
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	9/10/2019	RB

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.**



<div>UNLESS OTHERWISE SPECIFIED</div> <div>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</div> <div>DIMENSIONS PER ASME Y14.5M-2009</div> <div>PARENTHESES FOR REF ONLY</div> <div>DIMENSIONS ARE IN INCHES</div> <div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div> <div>TOLERANCES:</div> <div> ANGLES ± 2°</div> <div> 3 PL ± .005 [13]</div> <div> 2 PL ± .015 [38]</div> <div>REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</div> <div>CONCENTRICITY MACHINED DIA: .002 FIM</div> <div>MACHINE TOOL MISMATCH .003 MAX</div>		OWN	DATE	<div><div><div>W</div><div>WERLATONE</div><div>SINCE 1965</div></div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>
		SD	9/10/2019	
		CHK	DATE	
		CS	9/10/2019	
		ENGR	DATE	
<div>NEXT ASSY</div> <div>USED ON</div>		INFR	DATE	<div><div>OUTLINE</div><div>SIZE: CAGE CODE: DWG NO</div><div>B10422-500</div></div> <div>REV: A</div>
		QA	DATE	
		RLSE	DATE	
		SCALE: 1:1.5		
		SHEET 1 OF 1		

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