



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

Combiners In-Phase Connectorized

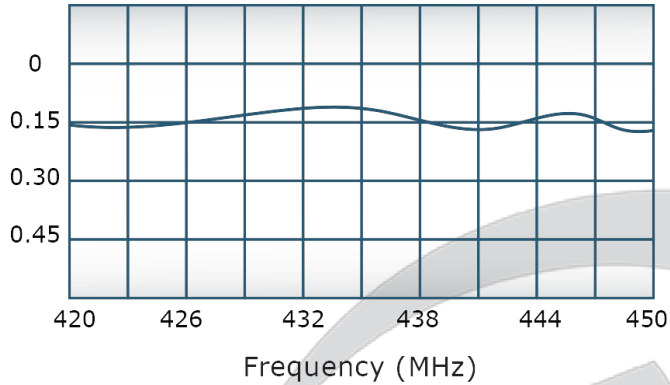


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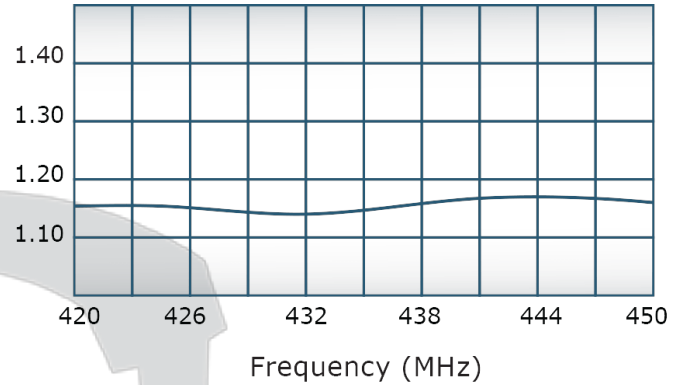
D4047

Performance Data (Specifications subject to change without notice):

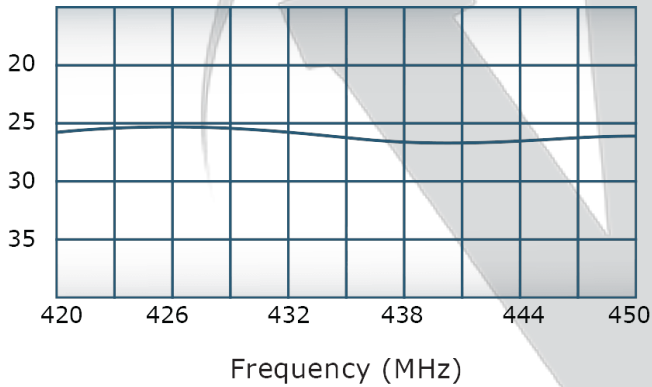
Insertion Loss:



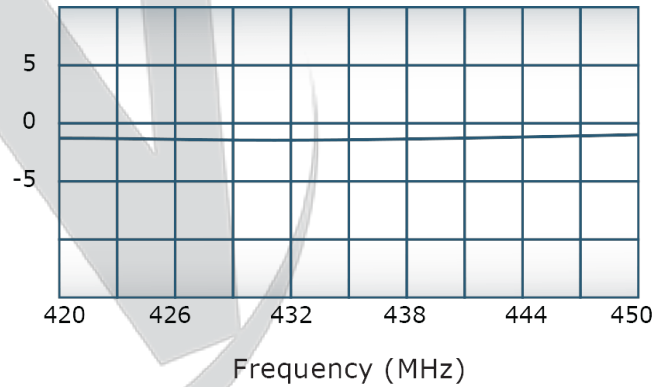
VSWR:



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

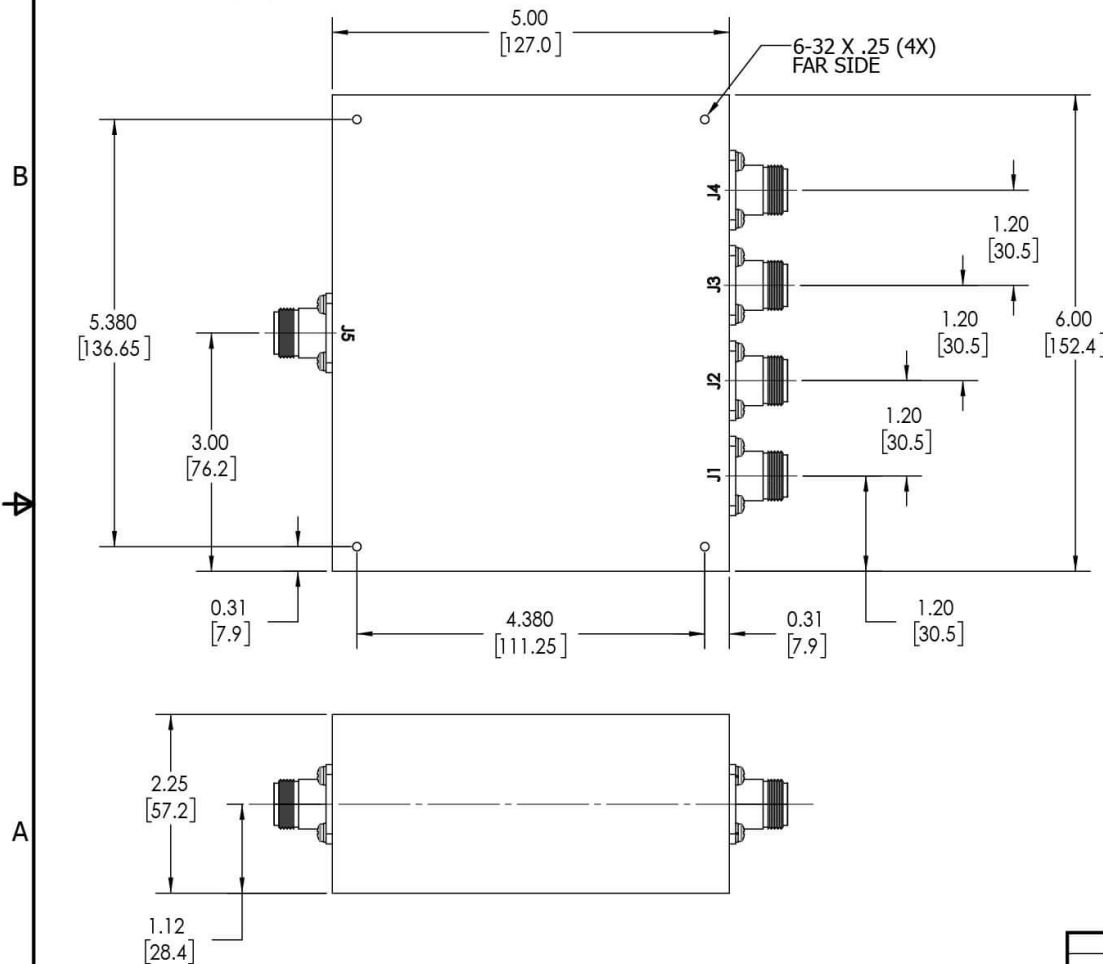
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	9/10/2019	RB

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		OWN	DATE	 WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	9/10/2019	
DIMENSIONS FOR ASME Y14.5M-2009		CHK	DATE	
PARENTHESES FOR REF ONLY		CS	9/10/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 10422-500
TOLERANCES:		QA	DATE	
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 MAX		RLSE	DATE	
THIRD ANGLE PROJECTION		SCALE: 1:1.5		REV A
NEXT ASSY USED ON		APPLICATION		SHEET 1 OF 1

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