


PRODUCT DATA SHEET
D9958

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:	410 - 450 MHz
Power:	1250 W CW
Insertion Loss:	0.3 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	± 4° 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
Size:	6.0 x 5.0 x 2.25"

Connector Configurations:

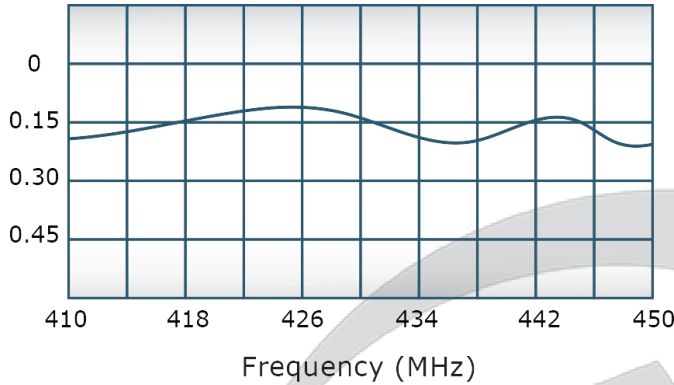
Model	Sum Port (J5)	Input/Output (J1-J4)
D9958-10	N Female	N Female
D9958-20	7/16 Female	N Female

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.

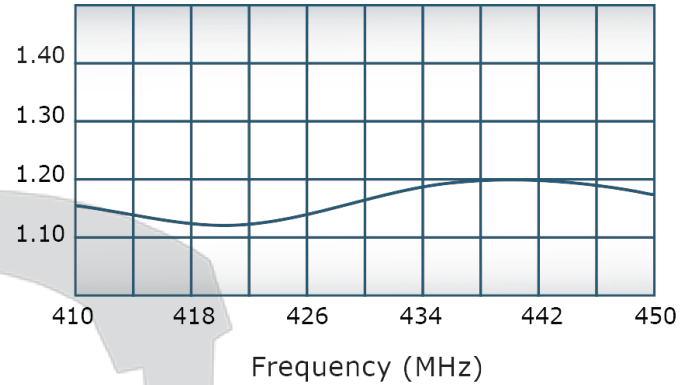


Performance Data (Specifications subject to change without notice):

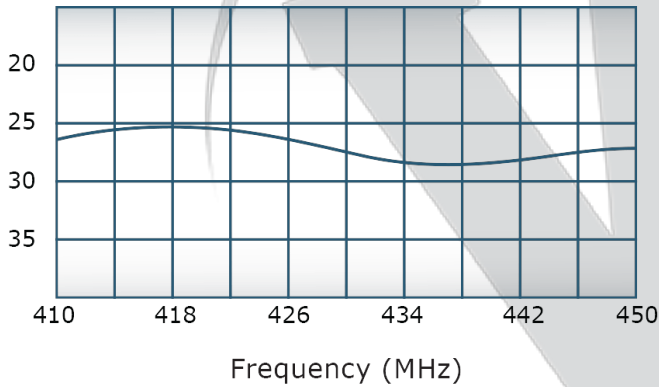
Insertion Loss:



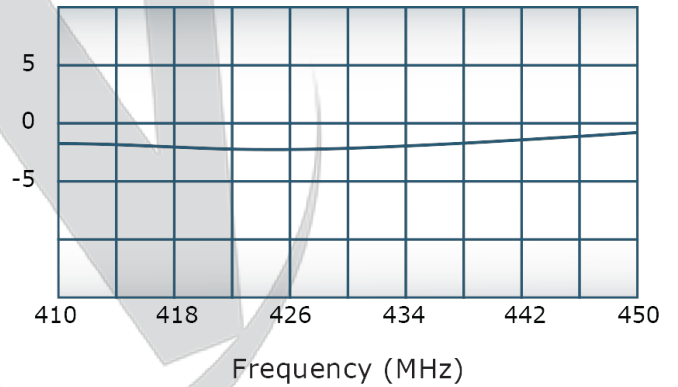
VSWR:



Isolation:



Phase Balance:



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Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

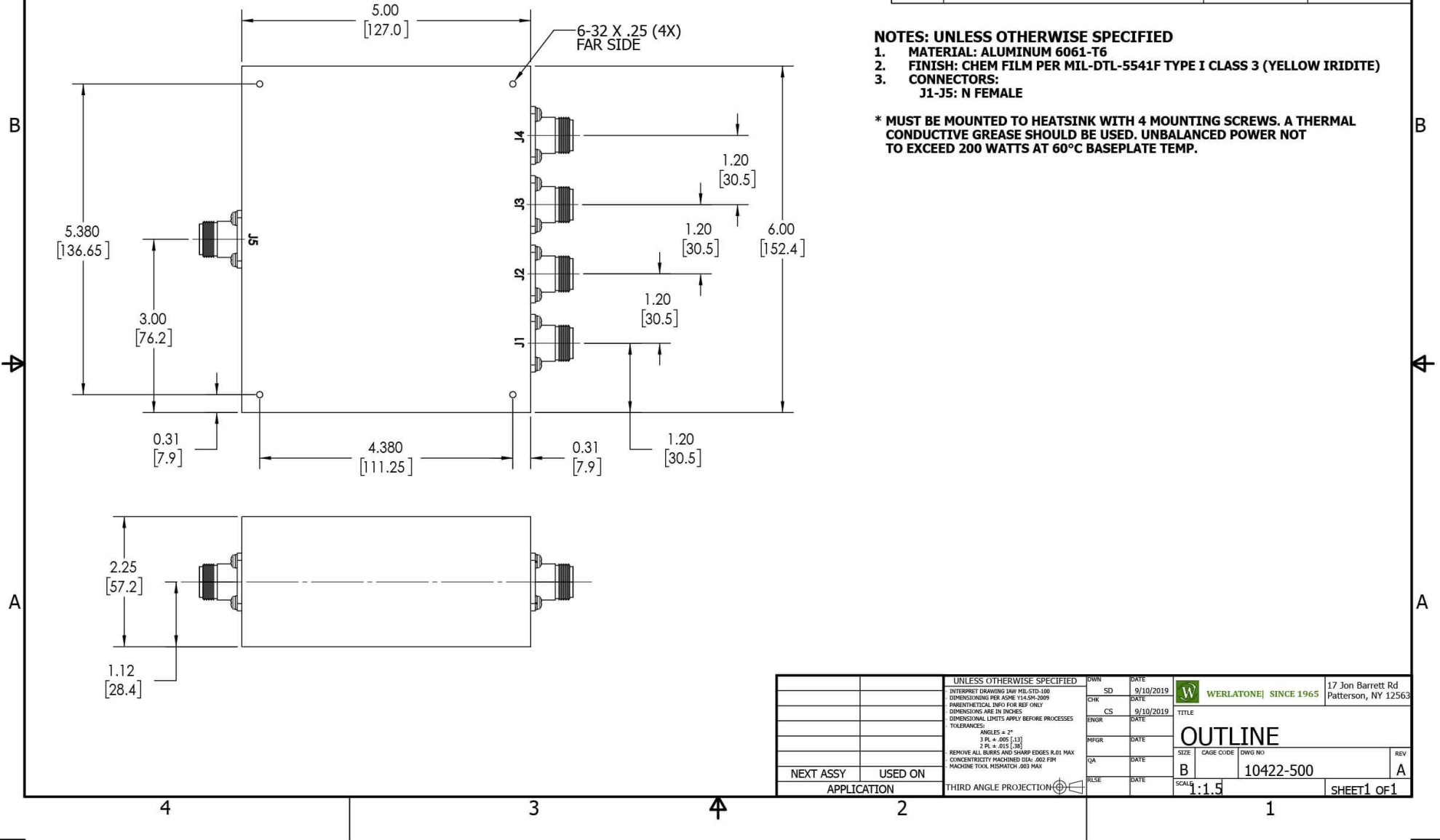
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	9/10/2019	RB

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		DATE	9/10/2019	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	DATE	9/10/2019	TITLE	
DIMENSIONS FOR ASSEMBLY PER MIL-STD-100	DATE	9/10/2019	OUTLINE	REV
PARENTHESES FOR REFERENCE ONLY	DATE	9/10/2019	SIZE	A
DIMENSIONS ARE IN INCHES	DATE	9/10/2019	CAGE CODE	10422-500
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DATE	9/10/2019	DWG NO	10422-500
TOLERANCES:	DATE	9/10/2019	SCALE	1:1.5
ANGLES ± 2°	DATE	9/10/2019	REV	A
3 PL ± .005 [1.3]	DATE	9/10/2019	SHEET 1 OF 1	
2 PL ± .015 [3.8]	DATE	9/10/2019		
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE	9/10/2019		
CONCENTRICITY MACHINED DIA: .002 FIM	DATE	9/10/2019		
MACHINE TOOL MISMATCH .003 MAX	DATE	9/10/2019		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

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