



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: $\pm 4^\circ$ 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
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.



WERLATONE

Model D9958

Combiners In-Phase Connectorized

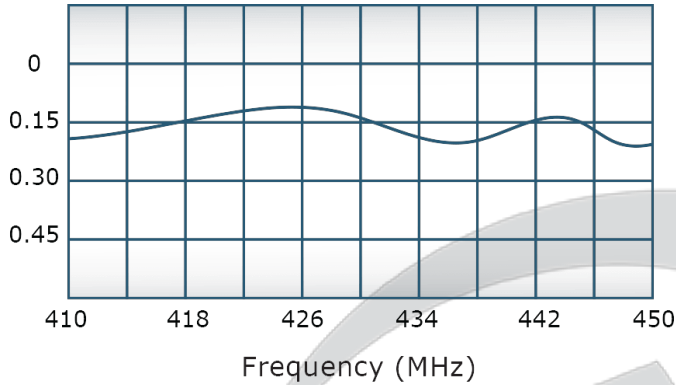


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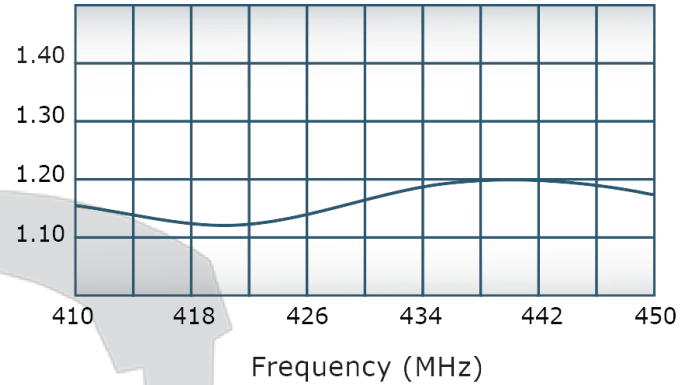
D9958

Performance Data (Specifications subject to change without notice):

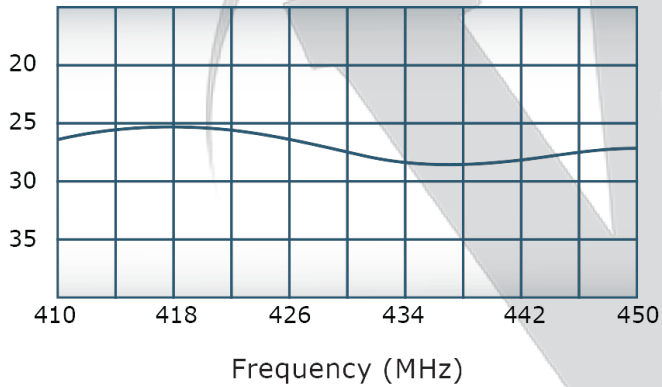
Insertion Loss:



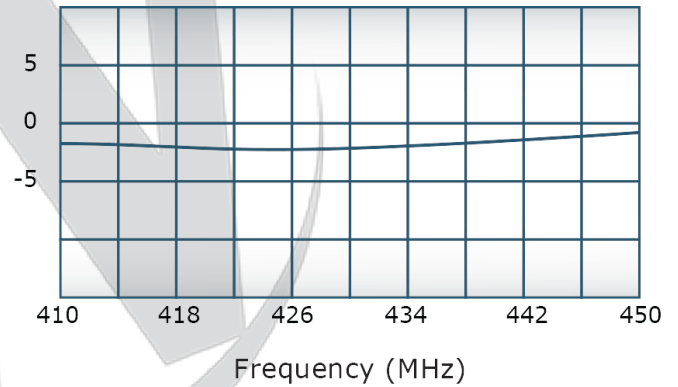
VSWR:



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

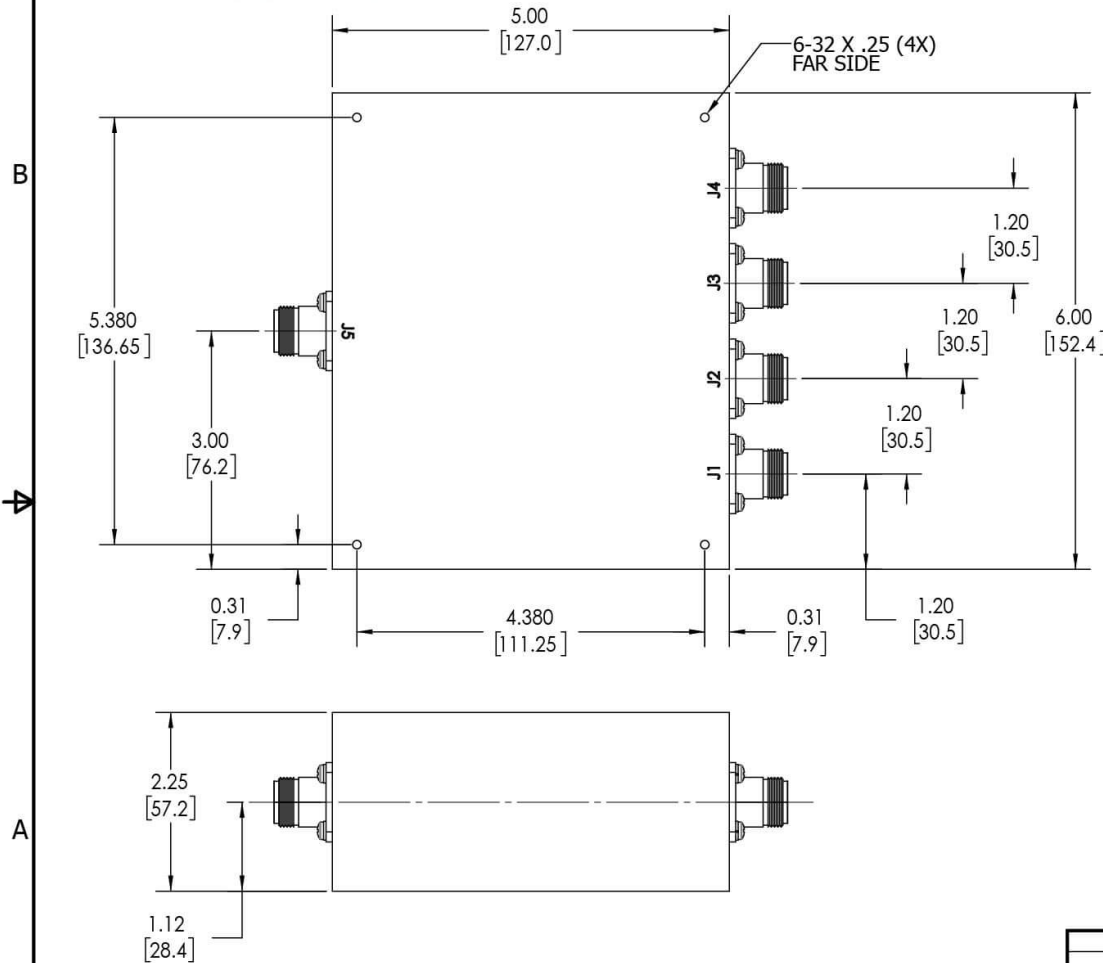
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	9/10/2019	RB

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			TITLE	OUTLINE	REV A
DIMENSIONS PER ASME Y14.5M-2009				CHK	DATE					
PARENTHESES INFO FOR REF ONLY				CS	9/10/2019					
DIMENSIONS ARE IN INCHES				ENGR	DATE	SIZE	CAGE CODE	DWG NO		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES				QA	DATE	SCALE	10422-500			
TOLERANCES:				RLSE	DATE	1:1.5		SHEET 1 OF 1		
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										
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION						
APPLICATION										

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