



PRODUCT DATA SHEET

D7439

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: 20 - 1000 MHz
Power: 250 W CW
Insertion Loss: 0.75 dB Max.
VSWR: 1.35:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.3 dB Max.
Isolation: 18 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: 2.5 lbs.
Size: 5.0 x 5.1 x 1.5"

Connector Configurations:

Model	Sum Port (J5)	Input/Output (J1-J4)
D7439-10	N Female	N Female
D7439-12	N Female	SMA 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 D7439

Combiners In-Phase Connectorized

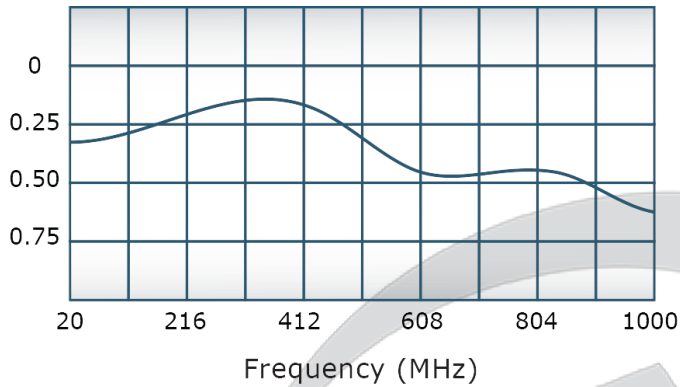


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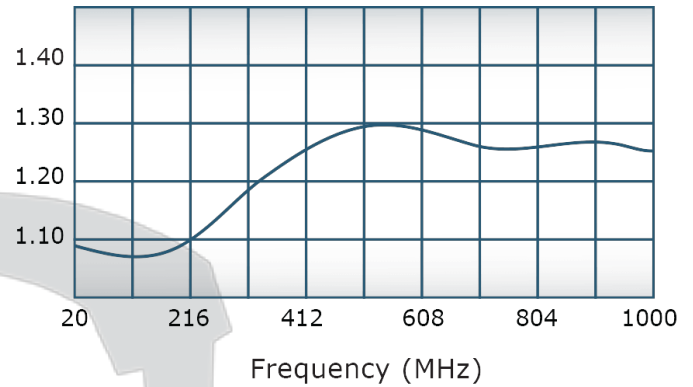
D7439

Performance Data (Specifications subject to change without notice):

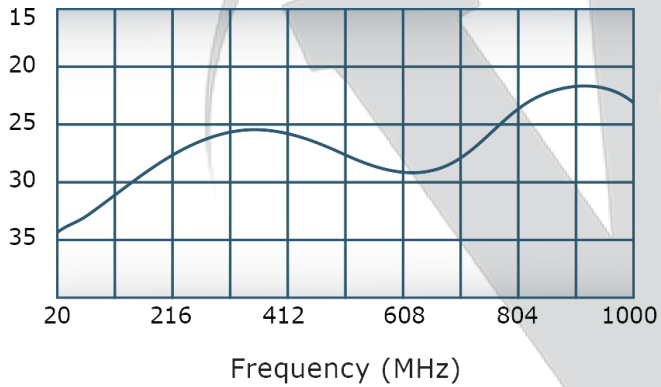
Insertion Loss:



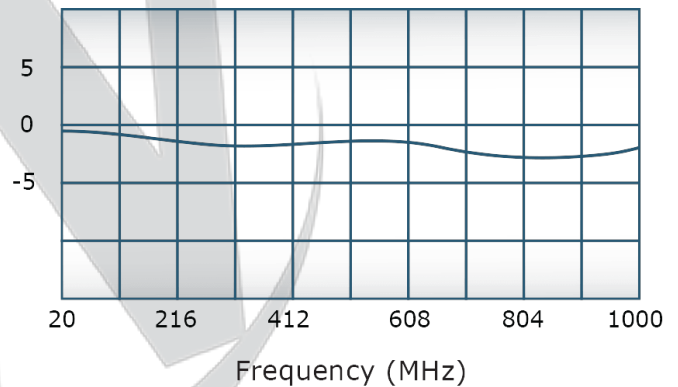
VSWR:



Isolation:



Phase Balance:

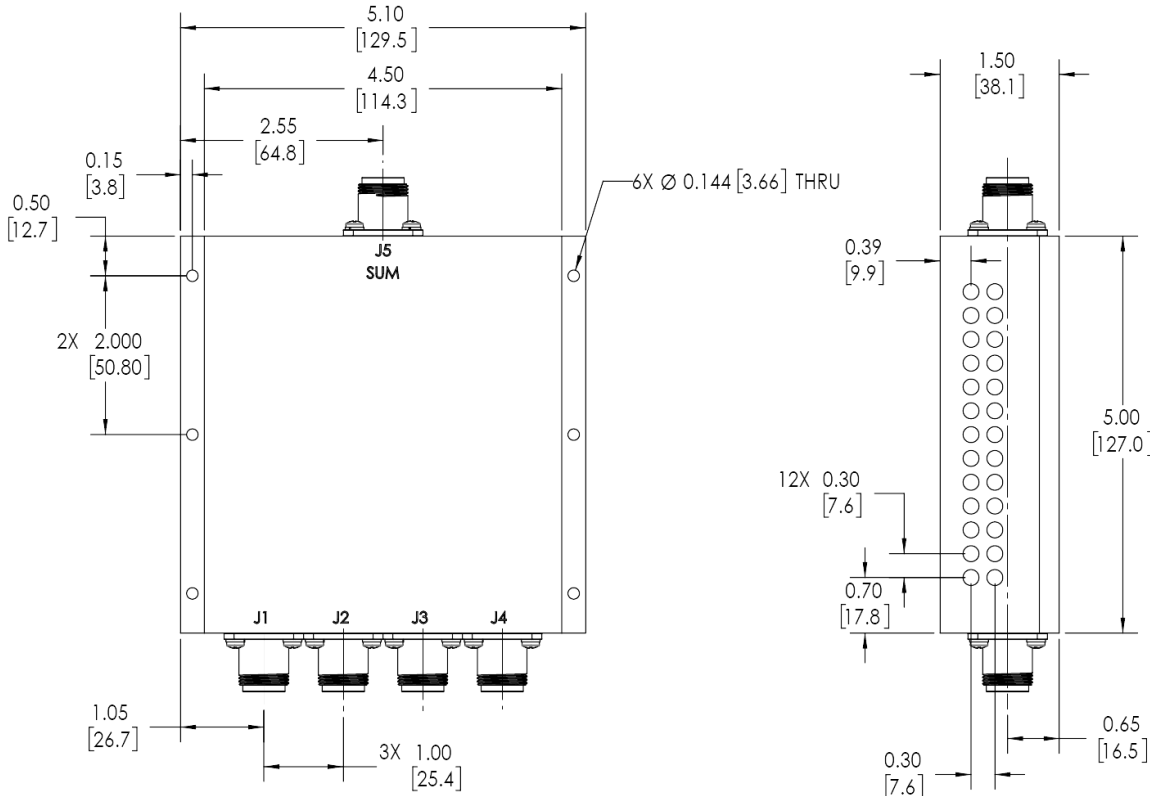


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NOTES: UNLESS OTHERWISE SPECIFIED

- 1. MATERIAL: ALUMINUM 6061-T6**
- 2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- 3. CONNECTORS: J1-J5: N FEMALE**

REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB

		UNLESS OTHERWISE SPECIFIED		DWN	DATE			10/18/2019			17 Jon Barrett Rd	
		INTERPRET DRAWING 100% MIL-STD-100		SD	DATE						Patterson, NY 12563	
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE							
		PARENTHESES FOR REF ONLY		CS	DATE							
		DIMENSIONS ARE IN INCHES		ENGR	DATE			10/18/2019		TITLE		
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES								OUTLINE		
		TOLERANCES:										
		ANGLES ± 2°										
		3 PL ± .005 [13]										
		2 PL ± .015 [38]		MFR	DATE							
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE					SIZE	CAGE CODE	DWG NO
		CONCENTRICITY MACHINED DIA. .002 FIM								B		10550-500
		MACHINE TOOL MISMATCH .003 FIM		RLSE	DATE							REV
NEXT ASSY		USED ON										A
APPLICATION		THIRD ANGLE PROJECTION				SCALE		1.5				SHEET 1 OF 1



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OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B	10550-500		A

SCALE 1:1.5 SHEET 1 OF 1

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