



## 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

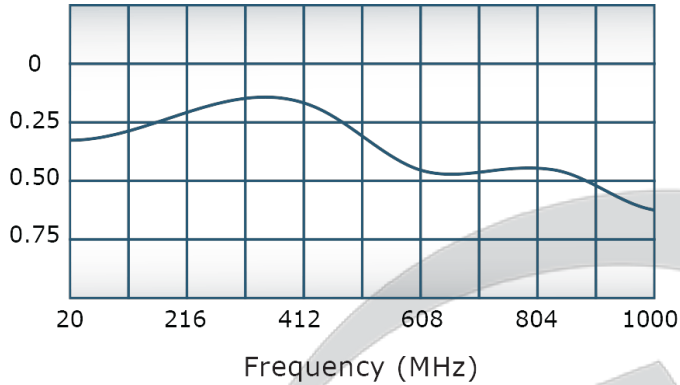


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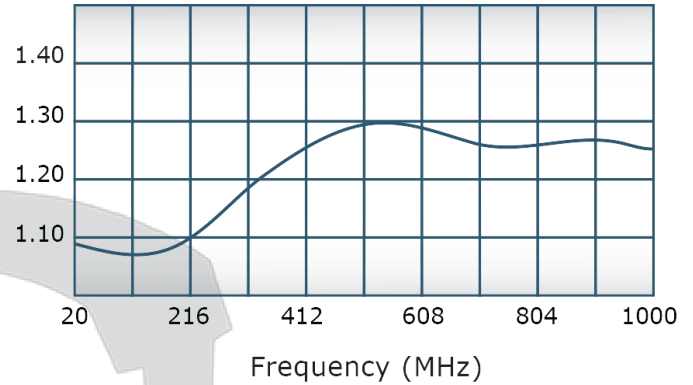
D7439

### Performance Data (Specifications subject to change without notice):

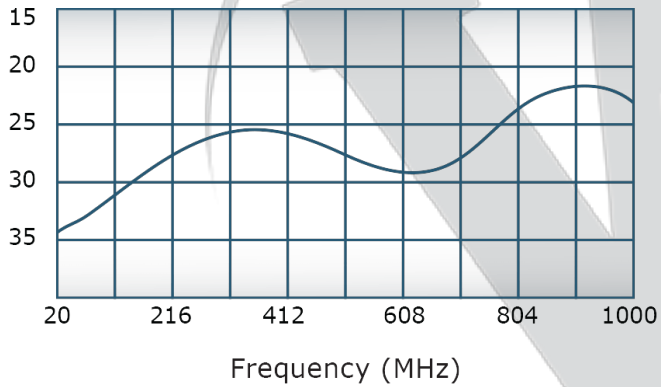
Insertion Loss:



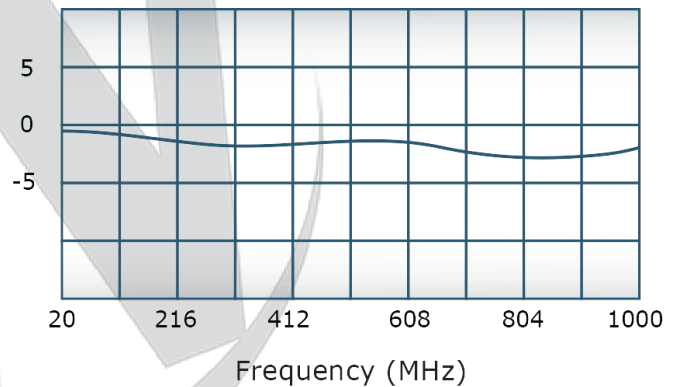
VSWR:



Isolation:



Phase Balance:



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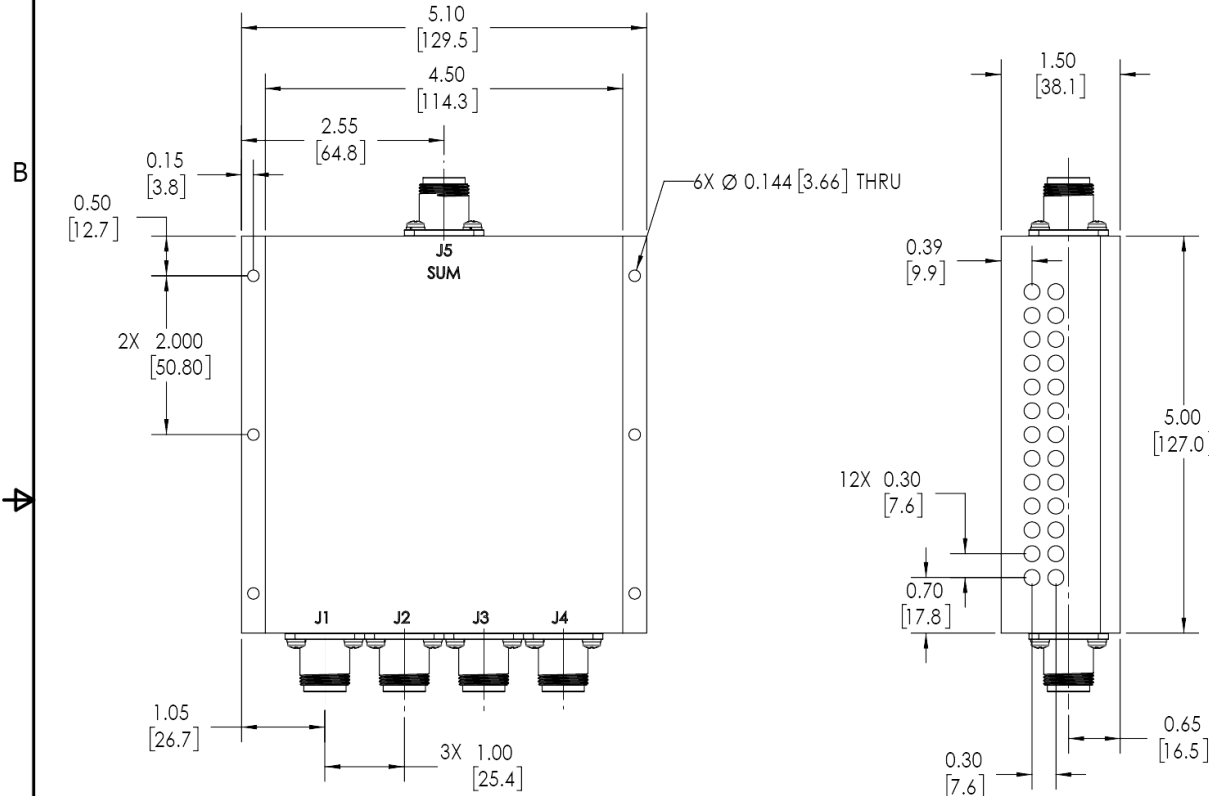
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	10/18/2019	RB

**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**



		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 <b>WERLATONE</b>   SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
		INTERPRET DRAWING 100 MIL-STD-100		SD	10/18/2019	
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	
		PARENTETICAL INFO FOR REF ONLY		CS	10/18/2019	
		DIMENSIONS ARE IN INCHES		ENGR	TITLE	<b>OUTLINE</b>  SIZE CAGE CODE DWG NO <b>B 10550-500</b>
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		MFR	DATE	
		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 FIM		RLSE	DATE	
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 		SCALE	1:1.5	REV <b>A</b>
APPLICATION						SHEET 1 OF 1

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