

## PRODUCT DATA SHEET

D7823

**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: 500 - 2500 MHz  
 Power: 200 W CW  
 Insertion Loss: 0.4 dB Max.  
 VSWR: 1.35:1 Max.  
 Phase Balance:  $\pm 5^\circ$  Max.  
 Amplitude Balance: 0.2 dB Max.  
 Isolation: 15 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: 0.75 lbs.  
 Size: 4.7 x 2.0 x 0.8"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D7823-10	N Female	N Female	N Female
D7823-12	N Female	SMA	SMA
D7823-102	SMA	SMA	SMA

**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.

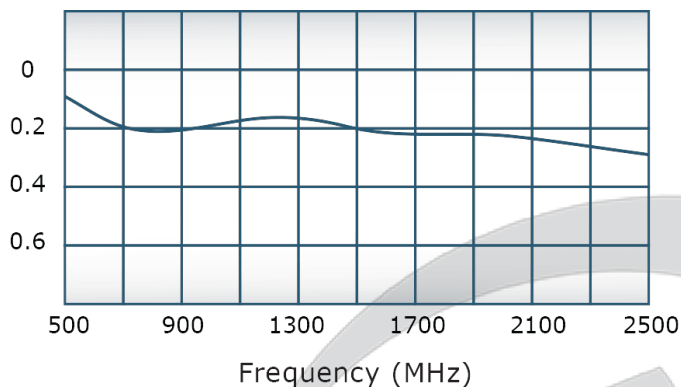


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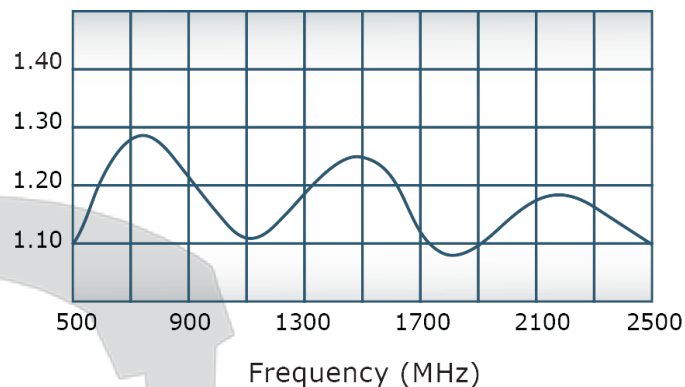
D7823

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

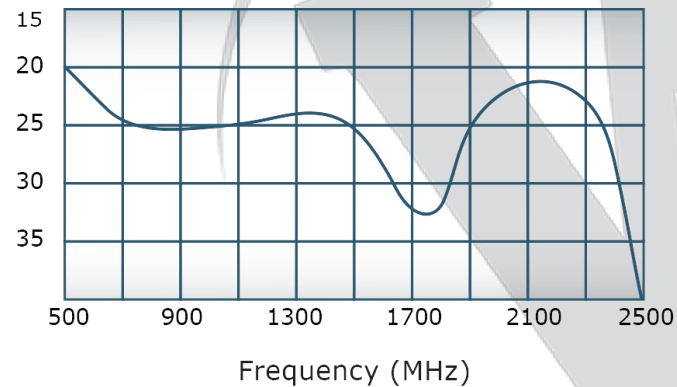
Insertion Loss:



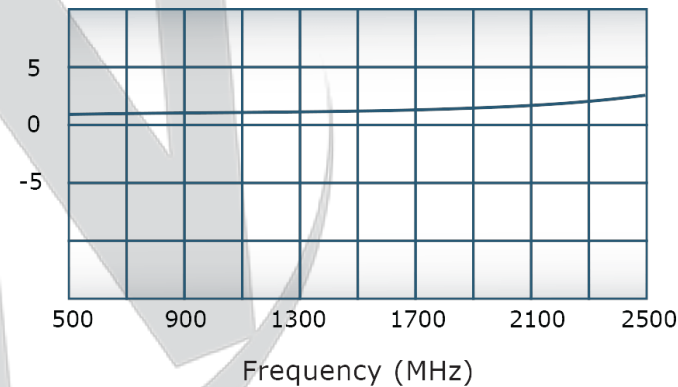
VSWR:



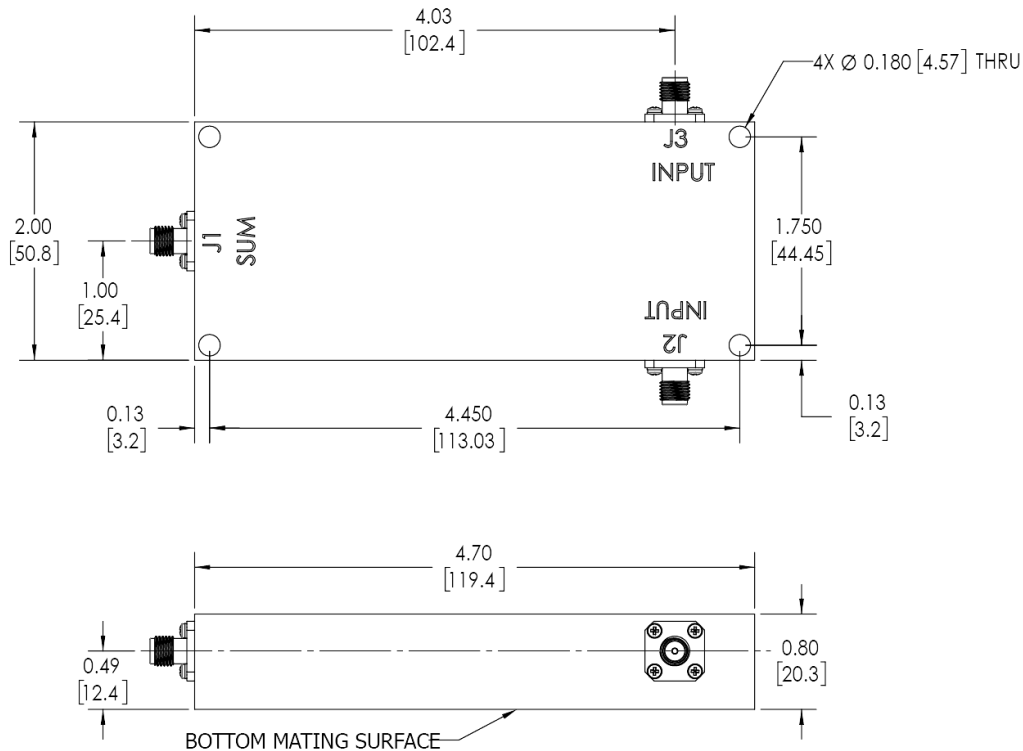
Isolation:



Phase Balance:





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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4961	09/10/09	BW
B	ECN 9174	09/21/16	CS
C	ECN 9696	11/20/2019	RB

- 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-J3: SMA FEMALE**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE <sup>®</sup> SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 PARENTHESES FOR REFERENCE ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE FINISHES TOLERANCES: 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		SD	11/20/2019		<div>OUTLINE</div> <div>SIZE CAGE CODE DWG NO 20291-500</div> <div>SCALE 1:1</div> <div>SHEET 1 OF 1</div>	
NEXT ASSY	USED ON	CHK	DATE			
		CS	11/20/2019			
APPLICATION		ENGR	DATE			
		INPR	DATE			
THIRD ANGLE PROJECTION 		QA	DATE			
		RLSE	DATE			

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