



## PRODUCT DATA SHEET

D8543

**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: 800 - 4200 MHz  
 Power: 250 W CW  
 Insertion Loss: 0.5 dB Max.  
 VSWR: 1.40:1 Max.  
 Phase Balance:  $\pm 5^\circ$  Max.  
 Amplitude Balance: 0.25 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: 0.5 lbs.  
 Size: 3.7 x 1.9 x 0.87"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D8543-12	N Female	SMA	SMA
D8543-102	SMA	SMA	SMA
D8543-4-12	Mini-N-Female	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.

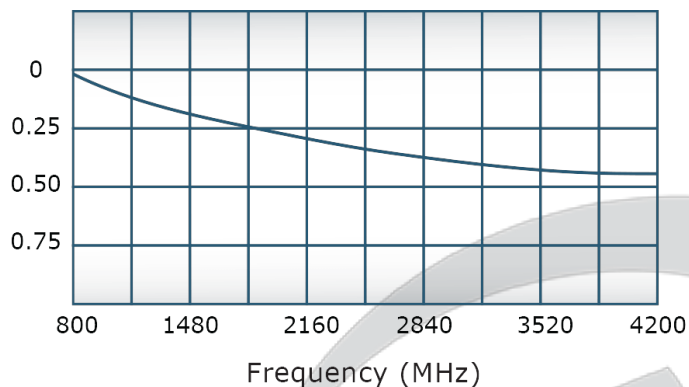


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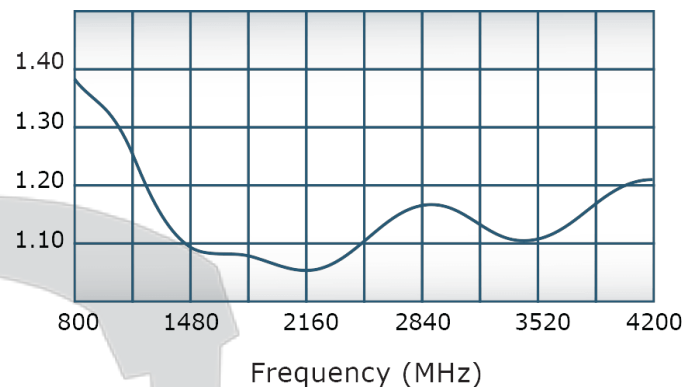
D8543

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

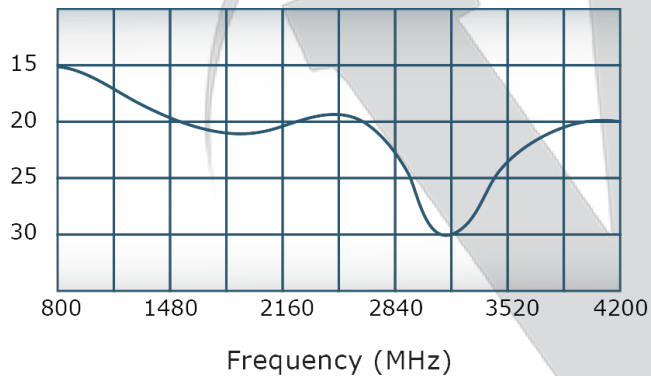
Insertion Loss:



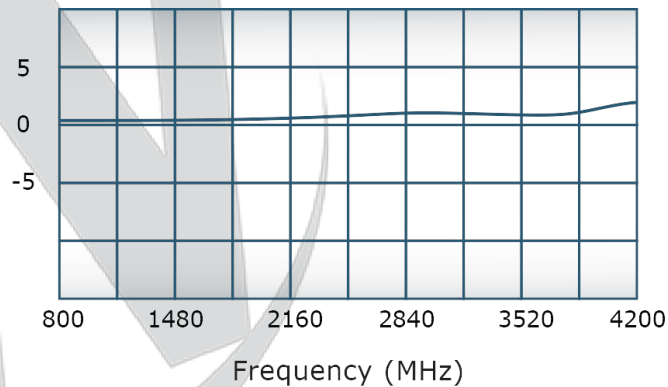
VSWR:



Isolation:



Phase Balance:

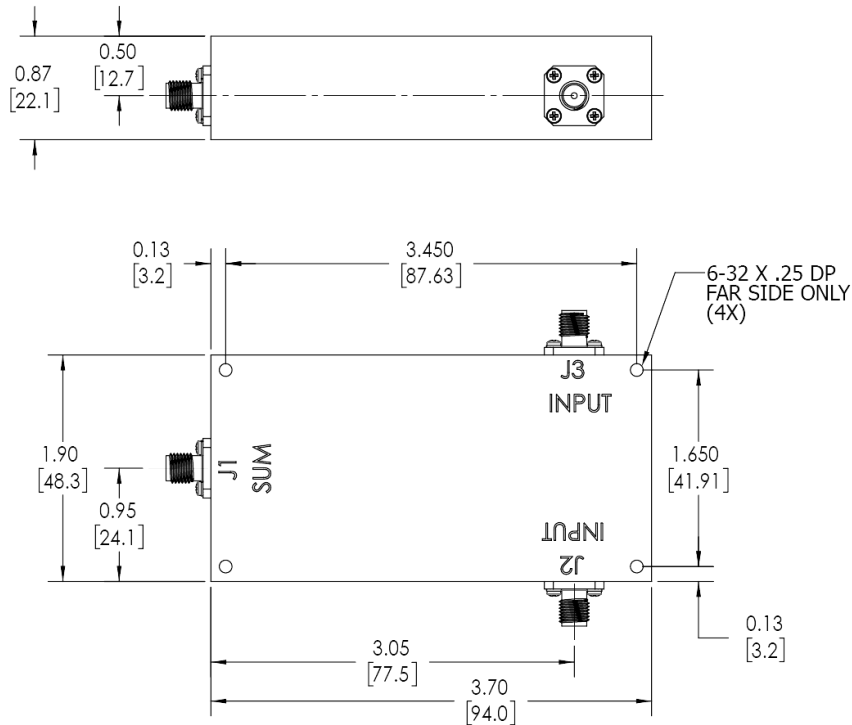


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/25/2019	RB



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
  - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
  - CONNECTORS: J1-J3: SMA FEMALE**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE <sup>®</sup> SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING 1001 MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 PARENTHESES FOR REF 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 DIA.		SD	11/25/2019		 <b>OUTLINE</b>	
		CHK	DATE			
		CS	11/25/2019	TITLE		
		ENGR	DATE	<b>B</b> 20487-500		
		INPR	DATE			
		QA	DATE	SIZE CAGE CODE DWG NO. REV		
		RLSE	DATE	SCALE 1:1		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION				SHEET 1 OF 1
APPLICATION						

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