



## 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:                ± 5° 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.

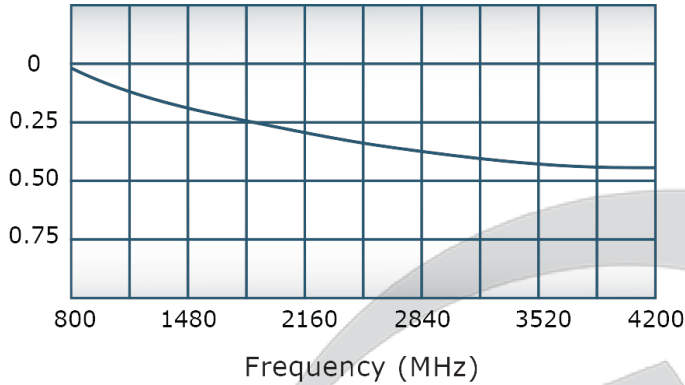


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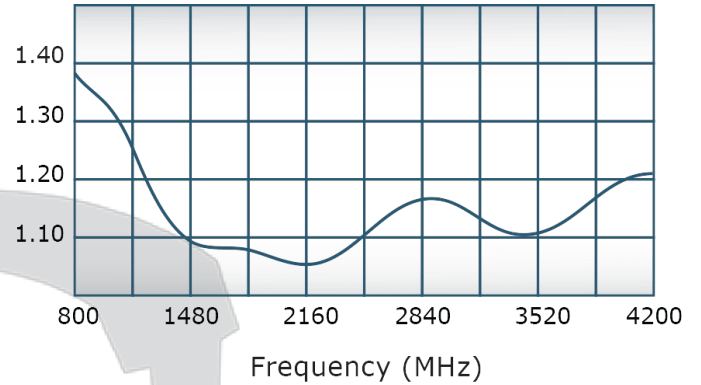
D8543

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

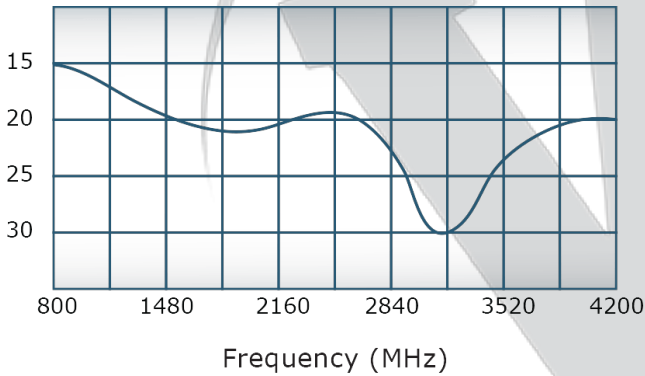
Insertion Loss:



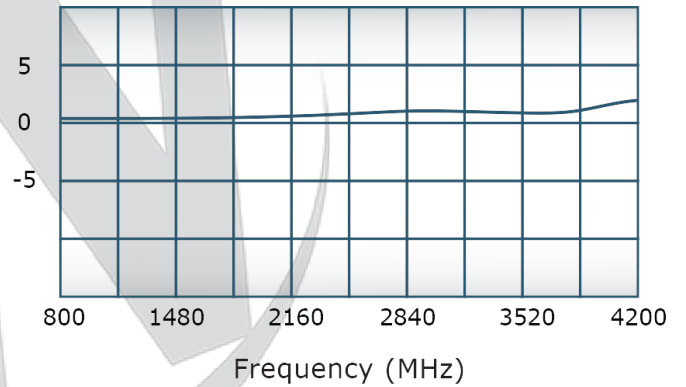
VSWR:



Isolation:



Phase Balance:



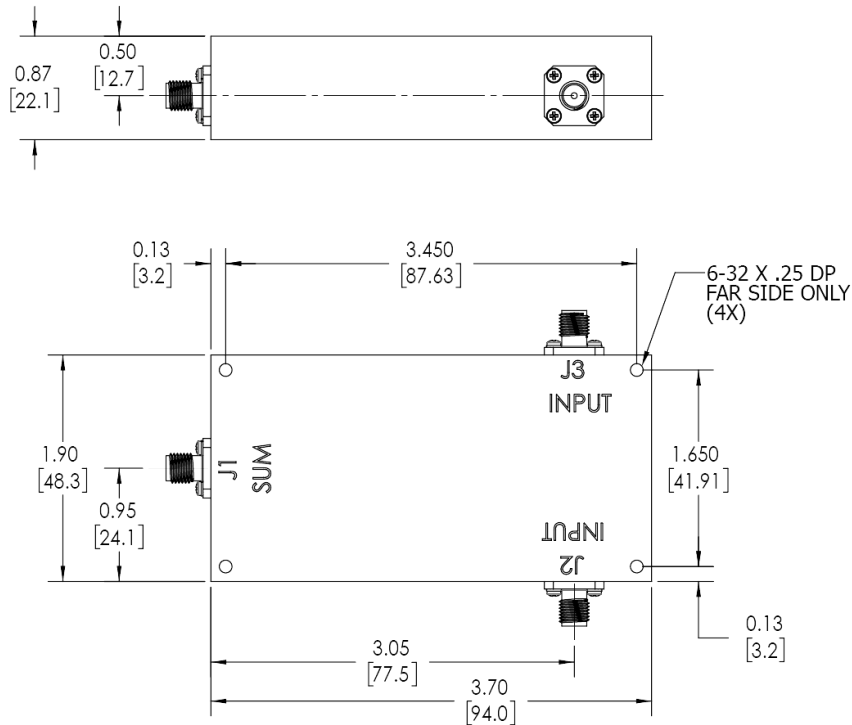
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Werlatone, Inc.

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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 SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	11/25/2019	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY		CS	11/25/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	<b>OUTLINE</b>
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	
TOLERANCES:		QA	DATE	SIZE
ANGLES = 2°		RLSE	DATE	CAGE CODE
3 PL ± .005 (.13)				DWG NO
2 PL ± .015 (.38)				REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				B
Ø CONCENTRICITY MACHINED DIA: .002 FIM				20487-500
MACHINE TOOL MISMATCH .003 FIM				A
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SCALE
APPLICATION				1:1
				SHEET 1 OF 1

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