

## PRODUCT DATA SHEET

D7539

**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 - 2800 MHz
Power:	200 W CW
Insertion Loss:	0.6 dB Max.
VSWR:	1.35:1 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:	1 lb. 9 oz.
Size:	5.5 x 4.1 x 1.09"

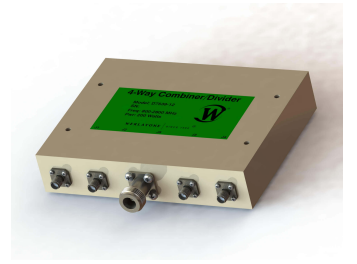
### Connector Configurations:

Model	Sum Port (J5)	Input/Output (J1-J4)
D7539-10	N Female	N Female
D7539-11	N Female	N Male
D7539-12	N Female	SMA
D7539-102	SMA 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.

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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

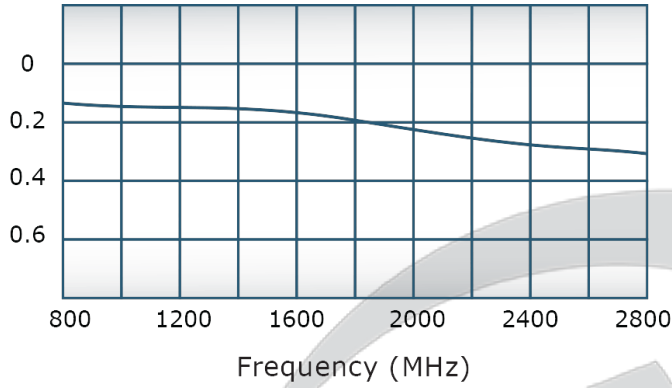


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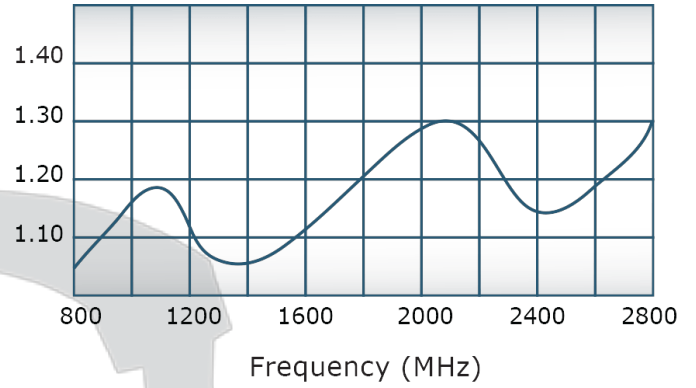
D7539

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

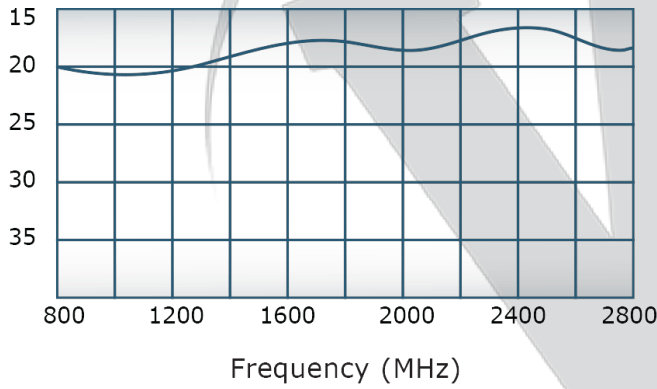
Insertion Loss:



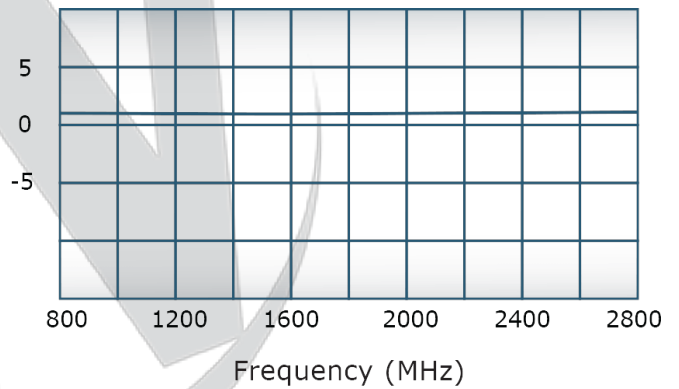
VSWR:



Isolation:



Phase Balance:



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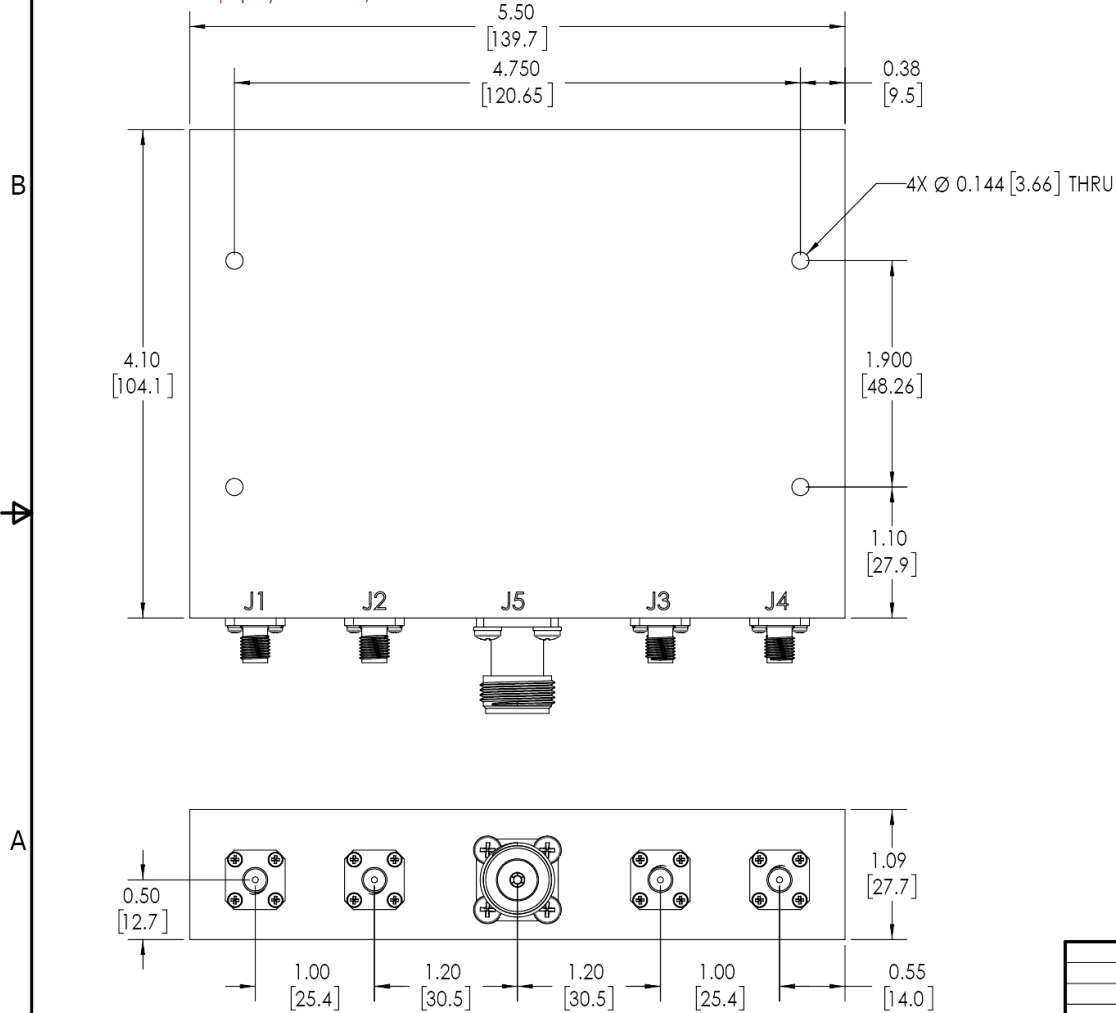
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/20/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
J1-J4: SMA FEMALE  
J5: N FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IAW MIL-STD-100	SD	11/20/2019	WERLATONE SINCE 1965		
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE			
PARENTHEetical INFO FOR REF ONLY	CS	11/20/2019	<b>OUTLINE</b> TITLE SIZE CAGE CODE DWG NO <b>B 20191-500</b>		
DIMENSIONS ARE IN INCHES	ENGR	DATE			
DIMENSIONAL LIMITS APPLY BEFORE FINISHES	INFR	DATE	SCALE: <b>1:1</b>		
TOLERANCES:	QA	DATE			
ANGLES = 2°	RLSE	DATE	SHEET 1 OF 1		
3 PL ± .005 [13]	APPLICATION	THIRD ANGLE PROJECTION			
2 PL ± .015 [38]	USED ON				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA: .002 FIM					
MACHINE TOOL MISMATCH .003 FIM					

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