

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: $\pm 5^\circ$ 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: 1 lb. 9 oz.
 Size: 5.5 x 4.1 x 1.09"

Connector Configurations:

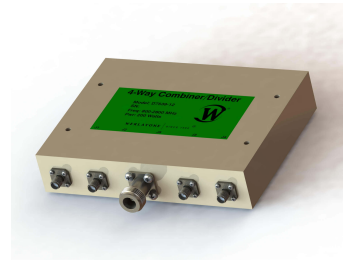
Model	Sum Port (J5)	Input/Output (J1-J4)
D7539-10	N Female	N Female
D7539-11	N Female	N Male
D7539-12	N Female	SMA
D7539-102	SMA Female	SMA Female

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.



WERLATONE

Model D7539

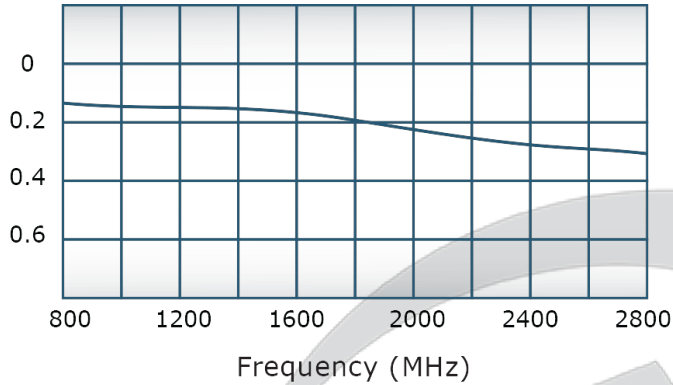


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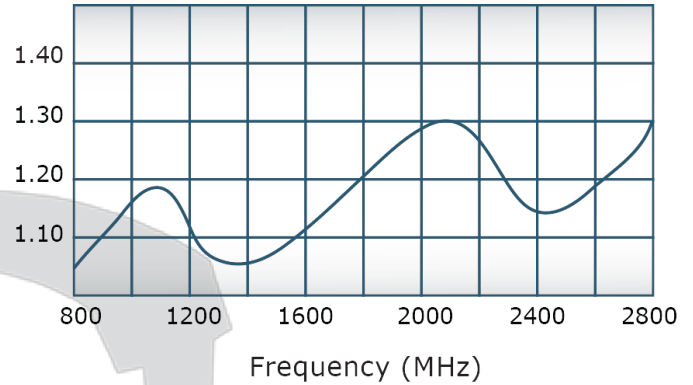
D7539

Performance Data (Specifications subject to change without notice):

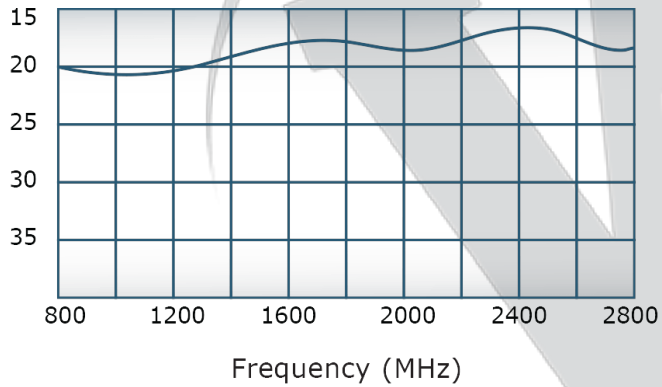
Insertion Loss:



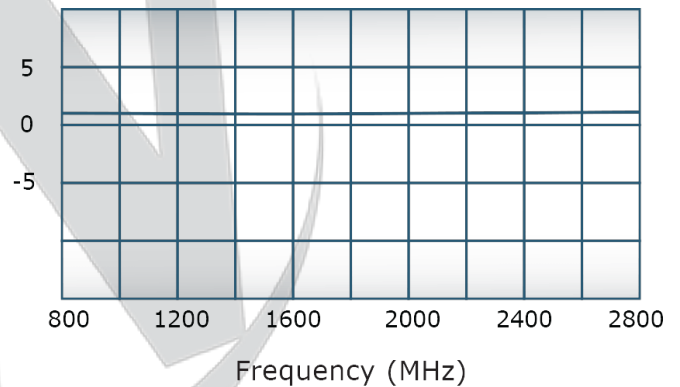
VSWR:



Isolation:



Phase Balance:



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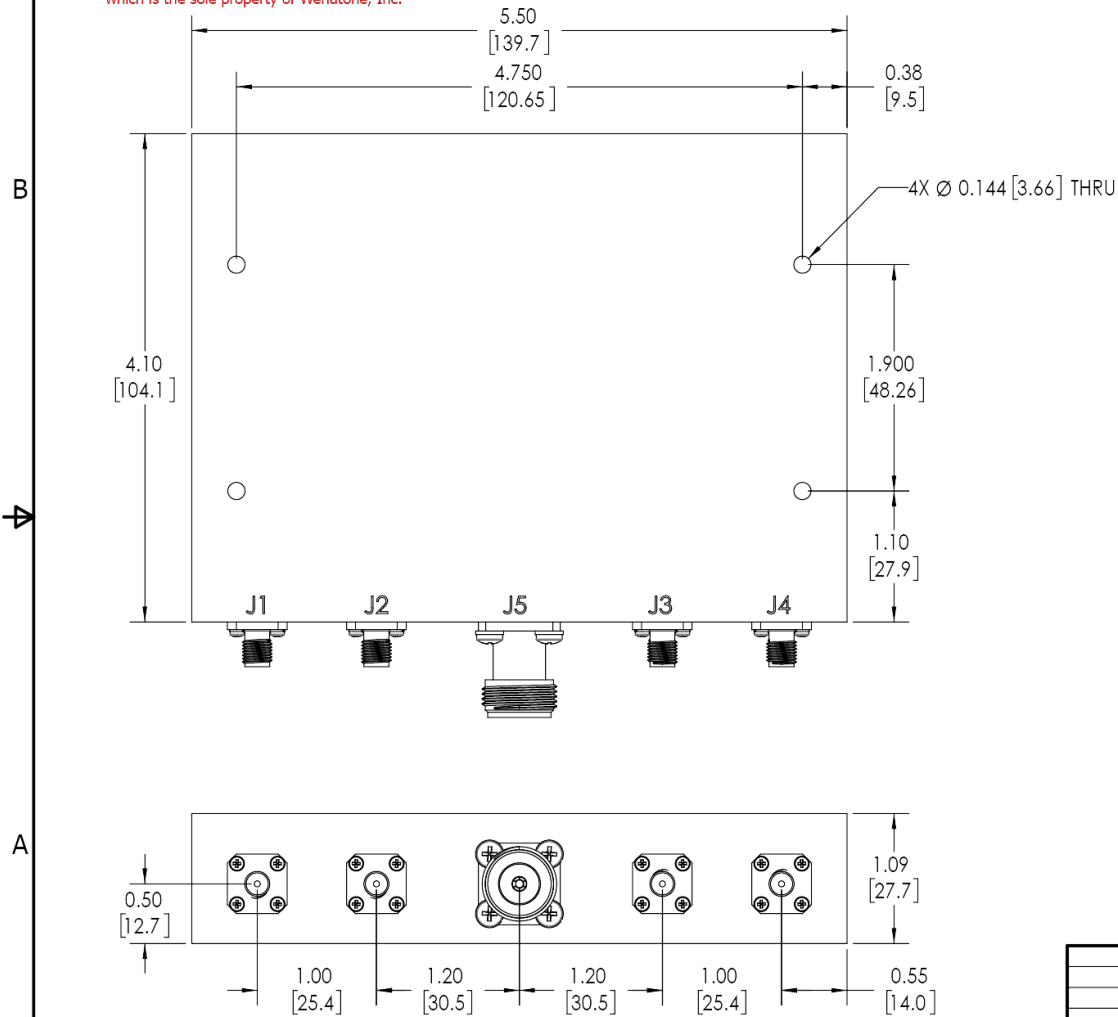
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/20/2019	RB

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

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