

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

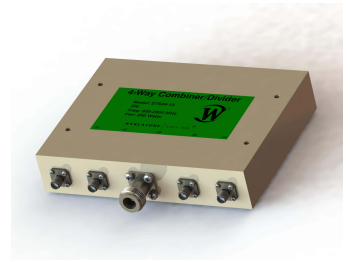
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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

Combiners In-Phase Connectorized

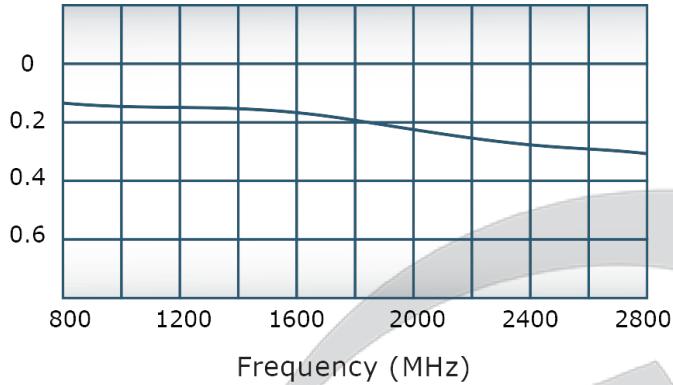


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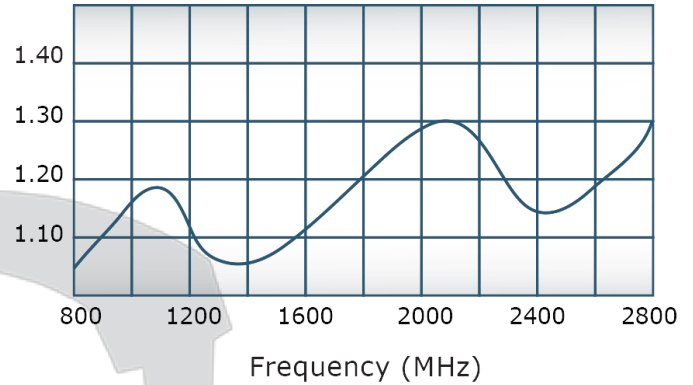
D7539

Performance Data (Specifications subject to change without notice):

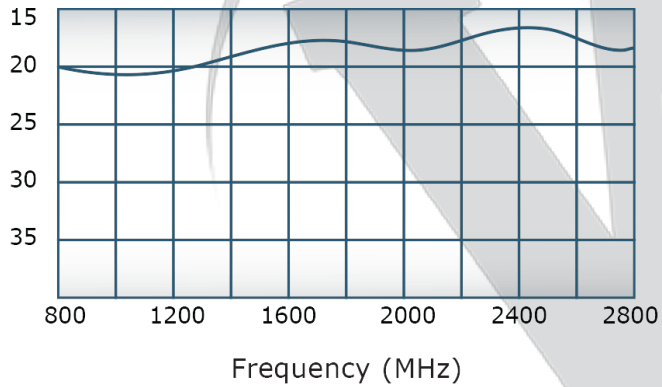
Insertion Loss:



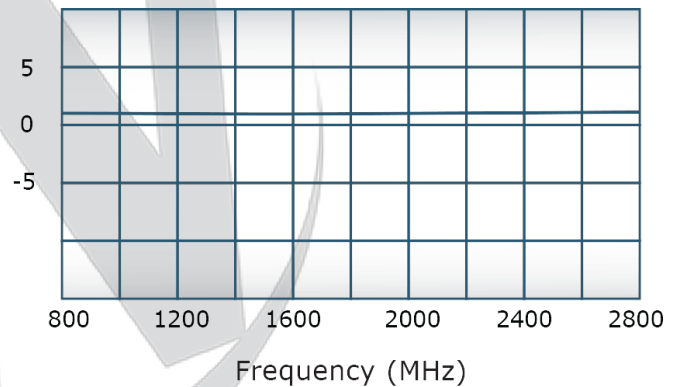
VSWR:



Isolation:



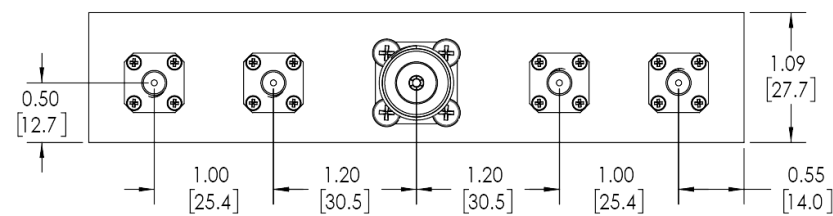
Phase Balance:



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NOTES: UNLESS OTHERWISE SPECIFIED

- NOT RESPONSIBLE OTHERWISE UNLESS SPECIFIED
1. MATERIAL: ALUMINUM 6061-T6
 2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
 3. CONNECTORS:
J1-J4: SMA FEMALE
J5: N FEMALE

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12565	
INTERPRET DRAWING IN ACC. WITH MIL-STD-100		SD	11/20/2019			
DIMENSIONS PER ENR 114-5M-2009		CHK	DATE			
PARENT/CHILD ENTS. FOR BEST USE DIMENSIONS ARE IN INCHES		CS	11/20/2019			
DIMENSIONAL LIMITS APPLY BEFORE FINISHES TOLERANCES:		ENGR	DATE	TITLE		
ANGLES = 2° 3 P. & .005 (17) 2 P. & .015 (30)		REFGR	DATE	OUTLINE		
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE		SIZE	CAGE CODE
CHUCK/THICKNESS MACHINED DIA. .002 FPM MACHINE THICKNESS .001 MAX					DWG NO	
NEXT ASSY	USED ON	RLSE	DATE	20191-500		
APPLICATION		THIRD ANGLE PROJECTION		SCALE	1:1	
				SHEET 1 OF 1		

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