

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

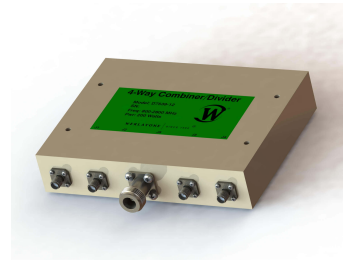
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

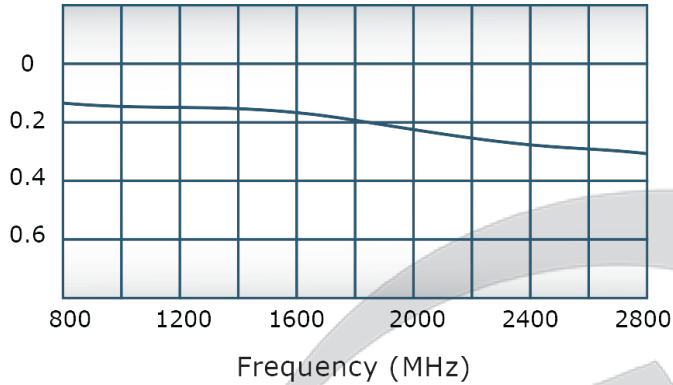


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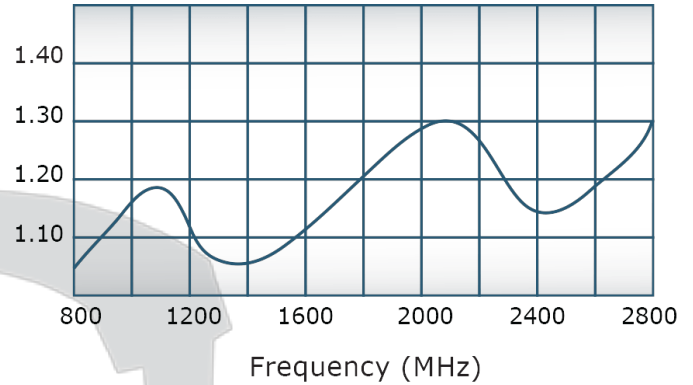
D7539

Performance Data (Specifications subject to change without notice):

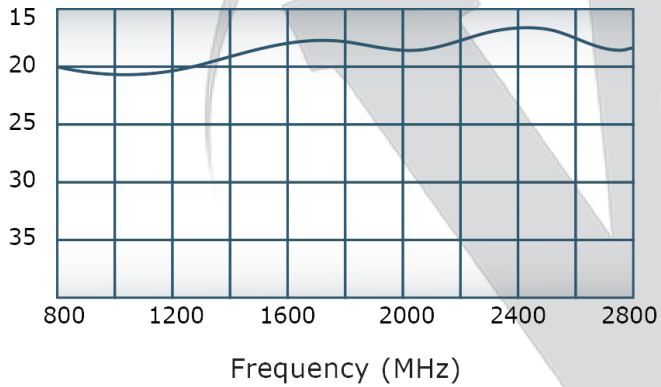
Insertion Loss:



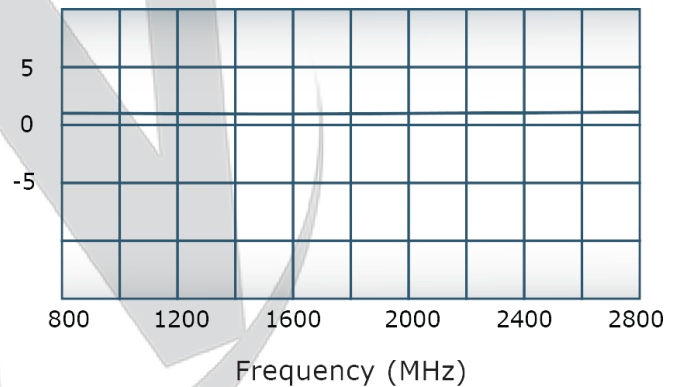
VSWR:



Isolation:



Phase Balance:



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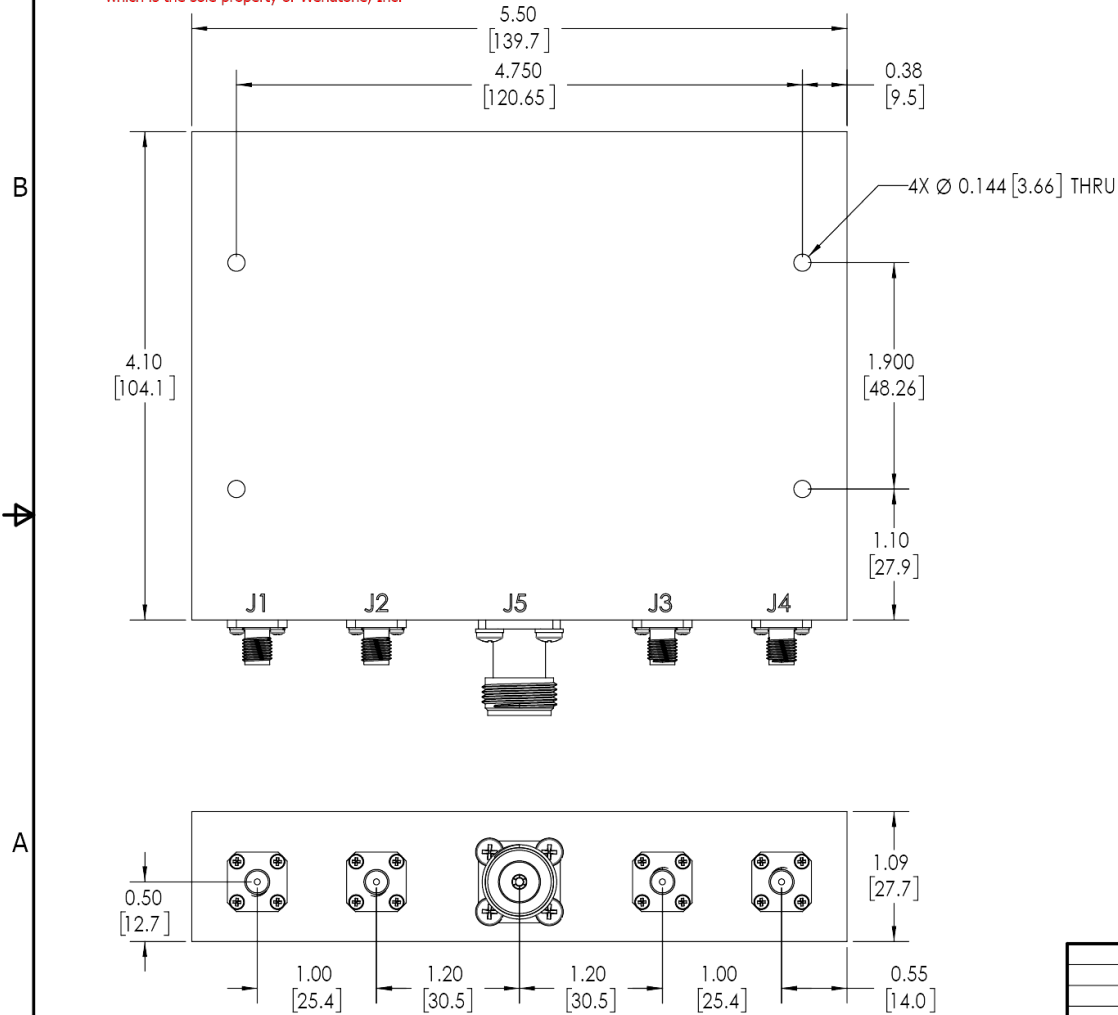
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/20/2019	RB

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		SD	DATE	11/20/2019	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE	11/20/2019	
DIMENSIONS PER ASME Y14.5M-2009		ENGR	DATE	11/20/2019	
PARENTHESES ARE IN INCHES		DATE	DATE	11/20/2019	
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		DATE	DATE	11/20/2019	
TOLERANCES:		DATE	DATE	11/20/2019	
ANGLES ± 2°		DATE	DATE	11/20/2019	
3 PL ± .005 [13]		DATE	DATE	11/20/2019	
2 PL ± .015 [38]		DATE	DATE	11/20/2019	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	DATE	11/20/2019	
CONCENTRICITY MACHINED DIA. .002 F/M		DATE	DATE	11/20/2019	
MACHINE TOOL MISMATCH .003 F/M		DATE	DATE	11/20/2019	
THIRD ANGLE PROJECTION		DATE	DATE	11/20/2019	
NEXT ASSY		DATE	DATE	11/20/2019	
USED ON		DATE	DATE	11/20/2019	
APPLICATION		DATE	DATE	11/20/2019	

WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
TITLE		OUTLINE	
SIZE	CAGE CODE	DWG NO.	REV
B		20191-500	A
SCALE	1:1	SHEET 1 OF 1	

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