

PRODUCT DATA SHEET

D7435

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:	80 W CW
Insertion Loss:	1.0 dB Max.
VSWR:	1.50:1 Max.
Phase Balance:	$\pm 5^\circ$ Max.
Amplitude Balance:	0.5 dB Max.
Isolation:	15 dB Min. (800-3800 MHz)
	12 dB Min. (3800-4200 MHz)

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 + 85°C
Weight:	2.0 lbs.
Size:	6.0 x 5.5 x 0.9"

Connector Configurations:

Model	Sum Port (J5)	Input/Output (J1-J4)
D7435-12	N Female	SMA
D7435-102	SMA	SMA

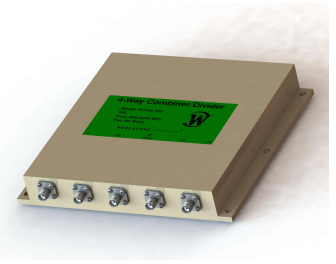
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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



WERLATONE

Model D7435

Combiners In-Phase Connectorized

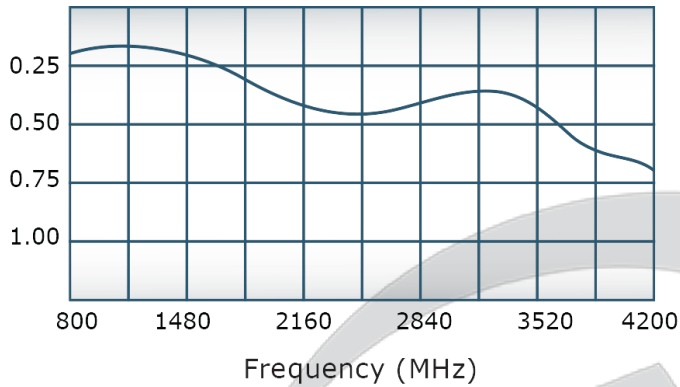


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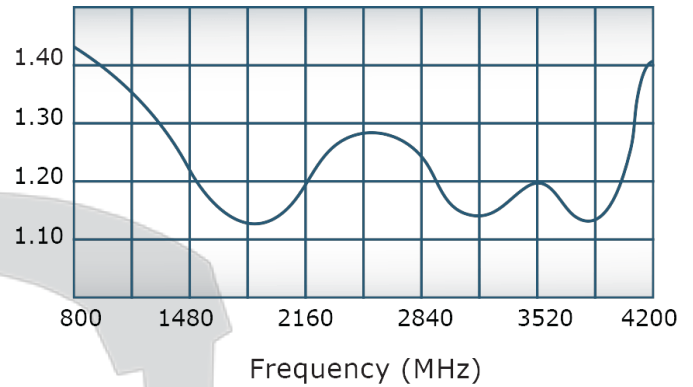
D7435

Performance Data (Specifications subject to change without notice):

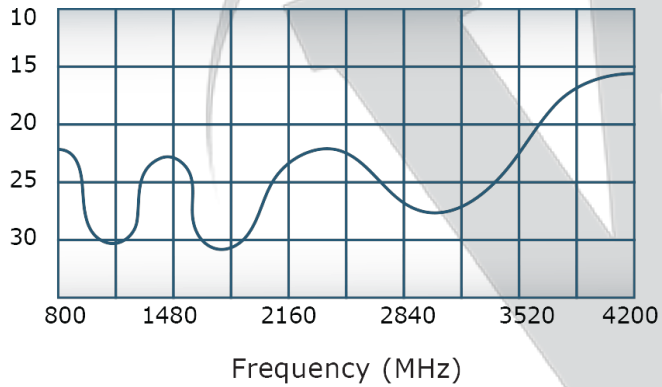
Insertion Loss:



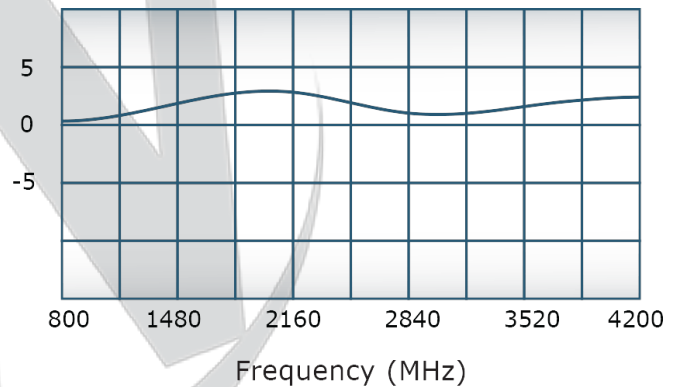
VSWR:



Isolation:



Phase Balance:

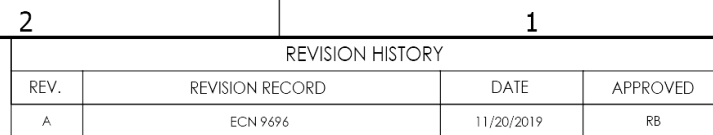


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NOTES: UNLESS OTHERWISE SPECIFIED

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

UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN INCH UNITS DIMENSIONS PER ASME Y14.5-2009 DIMENSIONAL TOLERANCES PER ASME Y14.5-2009 DIMENSIONS ARE IN INCHES DIMENSIONAL UNITS APPLY PER REVERSE PROCESSES TOLERANCES: ANGLES = $\pm$ 3 PL. & ϕ OS (13) 2 PL. & ϕ IS (30) REMOVE ALL BURRS AND SHARP EDGES 0.01 MAX ORIENTRICITY MACHINED DIA. -002 FIM MACHINE TOOL DEFORMATION 0.005 MAX		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12565
		SD	11/20/2019		
NEXT ASSY USED ON APPLICATION	THIRD ANGLE PROJECTION	CHK	DATE	TITLE OUTLINE SIZE: CAGE CODE: DWSG NO:	REV A
		CS	11/20/2019		
		ENGR	DATE	20120-501	1 of 1
		MPGR	DATE		
		QA	DATE	SCALE: 1.5	SHEET 1 OF 1
		RLSE	DATE		

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