

PRODUCT DATA SHEET

D8146

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: 20 - 130 MHz
Power: 1500 W CW
Insertion Loss: 0.35 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.2 dB Max.
Isolation: 18 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: 8.0 lbs.
Size: 13.0 x 6.0 x 2.75"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J4)
D8146-20	7/16 Female	N Female

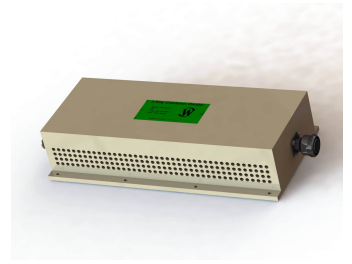
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration 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 D8146

Combiners In-Phase Connectorized

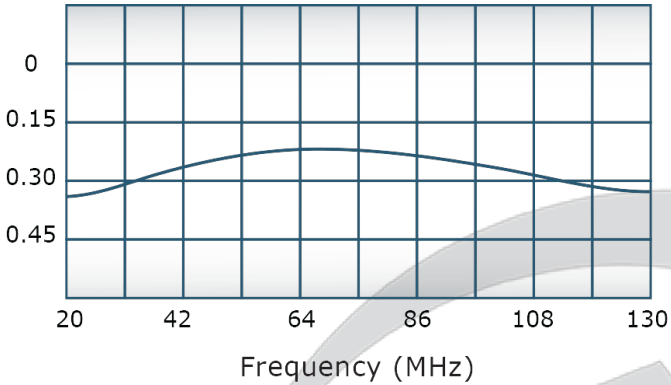


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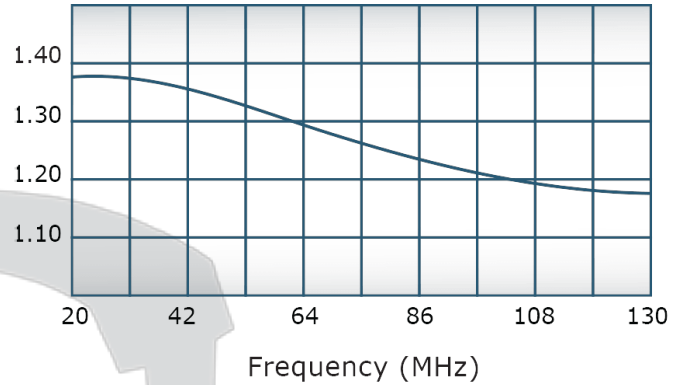
D8146

Performance Data (Specifications subject to change without notice):

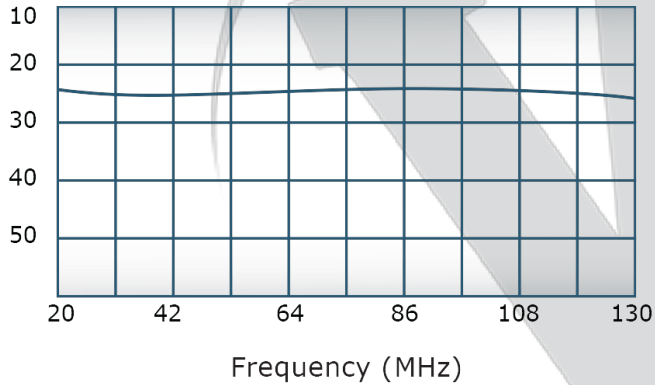
Insertion Loss:



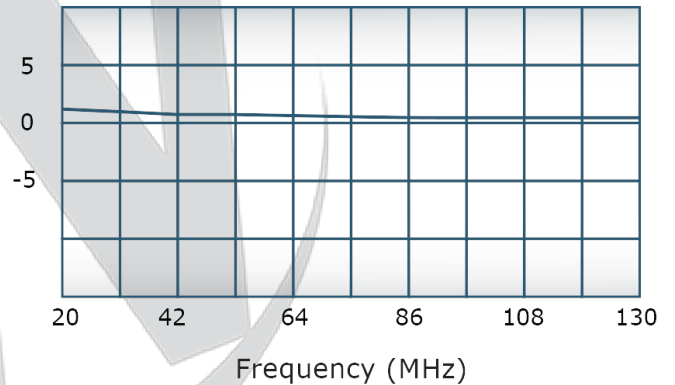
VSWR:



Isolation:



Phase Balance:

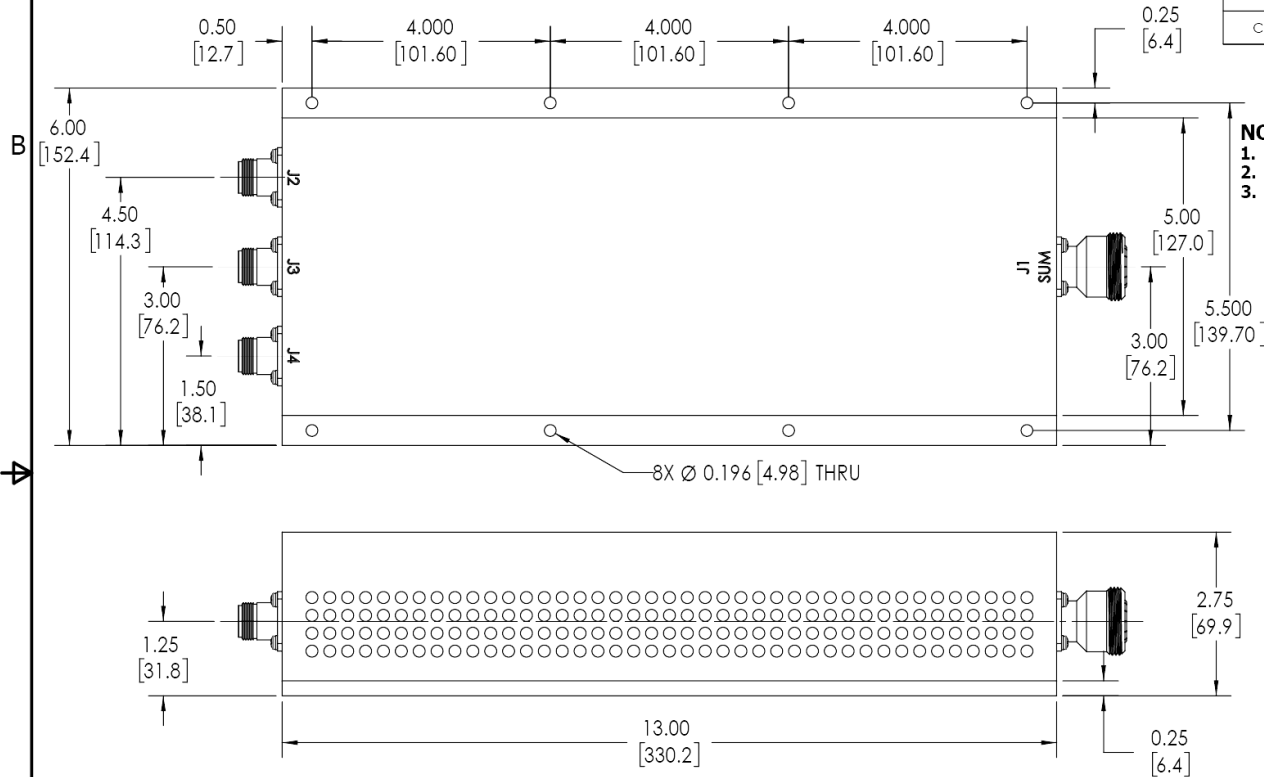


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4545	6/08	CS
B	ECN 5407	6/11	CS
C	ECN 9696	12/2/2019	RB



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE 1 CLASS 3 (YELLOW IRIDITE)**
 - CONNECTORS:**
J1: 7/16 FEMALE
J2-J4: N FEMALE

UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING 100 MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 DIMENSIONAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE FINISHES TOLERANCES: ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [38] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 FIM		OWN	DATE	W WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563	
		SD	12/2/2019		
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APPLICATION		SCALE	20428-500		C
THIRD ANGLE PROJECTION		B	1:2		SHEET 1 OF 1

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