

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

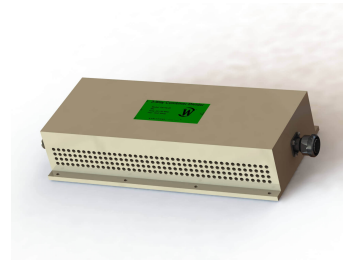
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

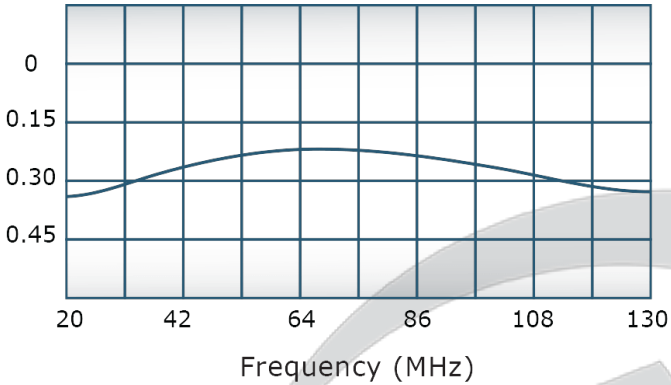


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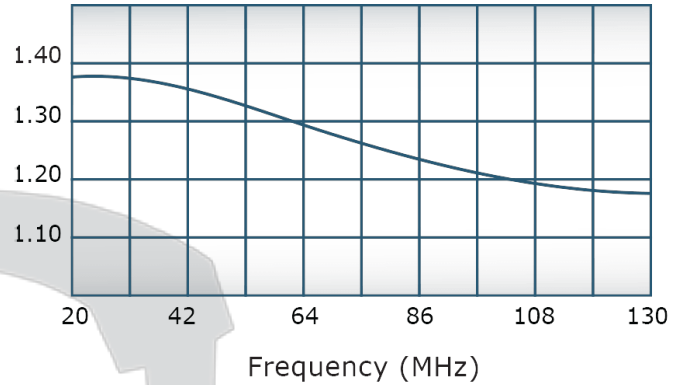
D8146

Performance Data (Specifications subject to change without notice):

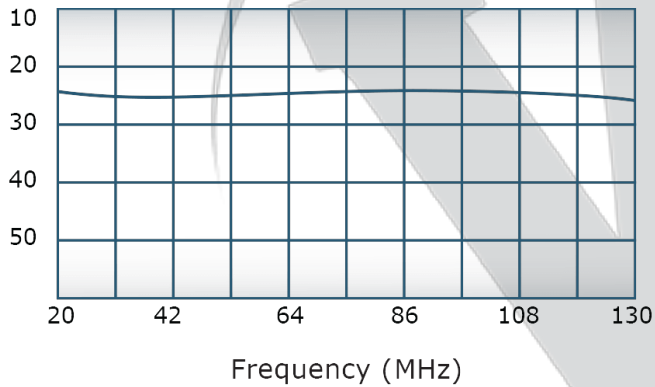
Insertion Loss:



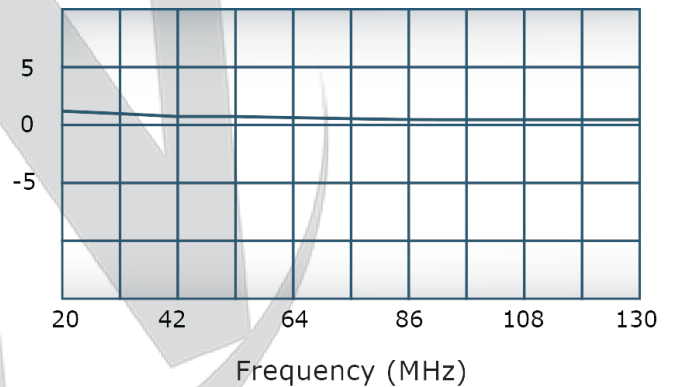
VSWR:



Isolation:



Phase Balance:

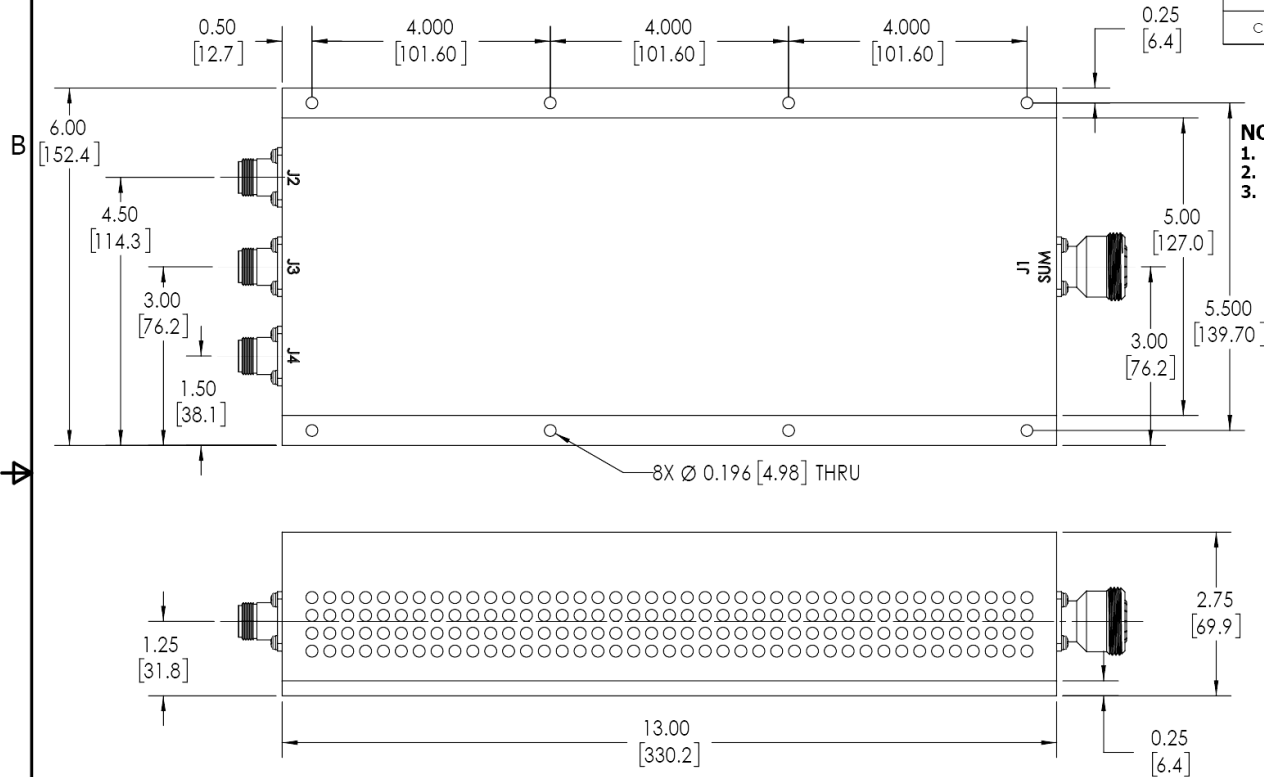


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4545	6/08	CS
B	ECN 5407	6/11	CS
C	ECN 9696	12/2/2019	RB



- 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		OWN	DATE		WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	12/2/2019				
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE	OUTLINE	SIZE	CAGE CODE
PARENTHESES FOR REF ONLY		CS	12/2/2019				
DIMENSIONS ARE IN INCHES		ENGR	DATE	DWG NO	REV		
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE				
TOLERANCES:		QA	DATE	20428-500	C		
ANGLES ± 2°		RLSE	DATE				
3 PL ± .005 [13]		SCALE					
2 PL ± .015 [38]		1:2					
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		SHEET 1 OF 1					
CONCENTRICITY MACHINED DIA. .002 FIM							
MACHINE TOOL MISMATCH .003 FIM							
THIRD ANGLE PROJECTION							
NEXT ASSY USED ON							
APPLICATION							

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