

PRODUCT DATA SHEET

D10074

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: 10 - 100 MHz
Power: 5000 W CW
Insertion Loss: 0.3 dB Max.
VSWR: 1.25:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: ± 0.1 dB Max.
Isolation: 20 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
Size: 14.375 x 12.0 x 5.0"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D10074-390	LC Female	SC 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.

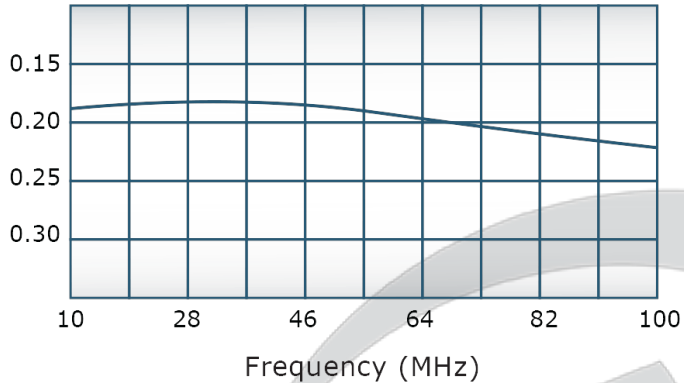


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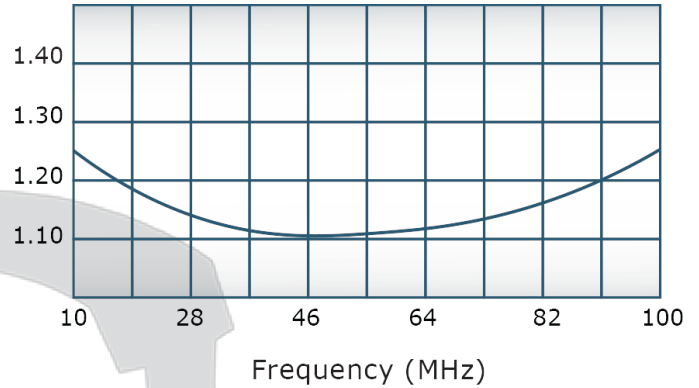
D10074

Performance Data (Specifications subject to change without notice):

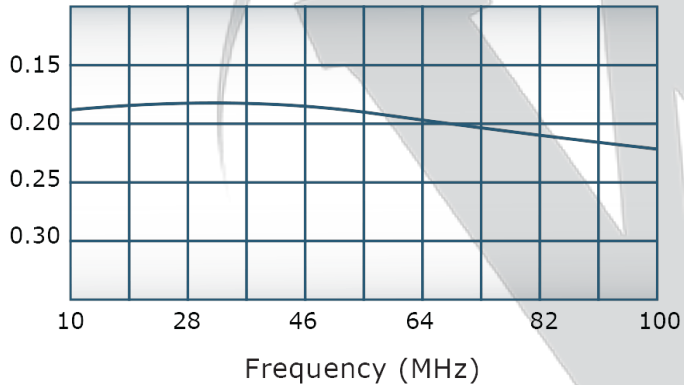
Insertion Loss:



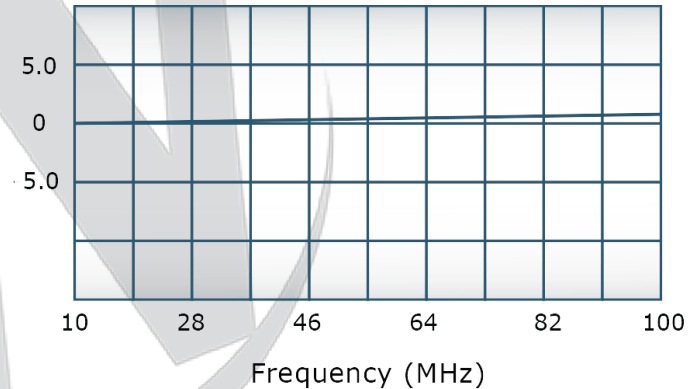
VSWR:



Insertion Loss:



Phase Balance:



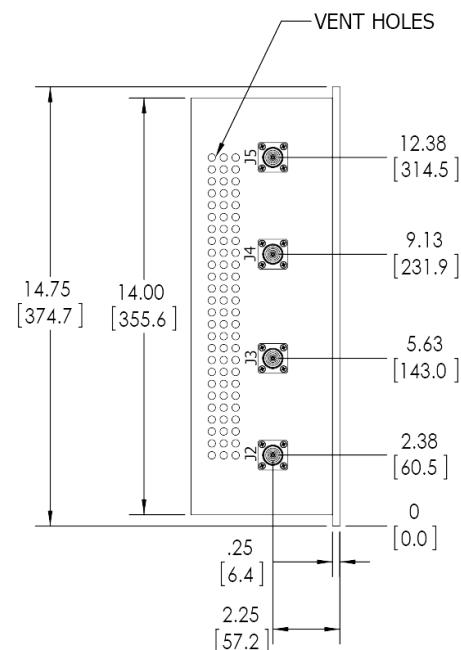
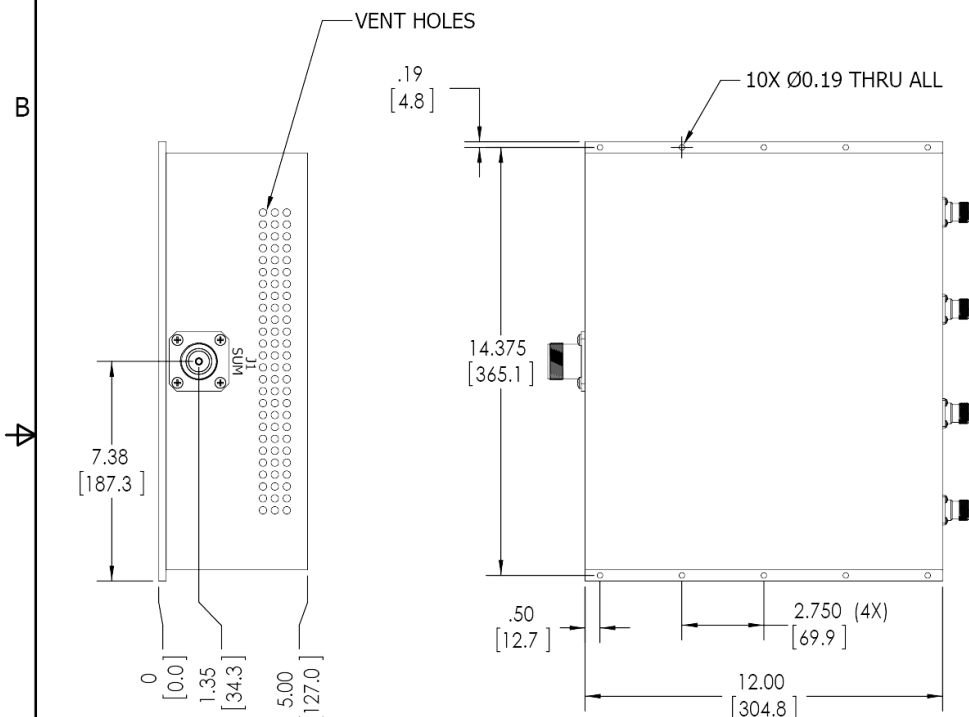
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REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	6/17/2014	SC



PRELIMINARY DWG. SPECIFICATIONS MAY CHANGE PRIOR TO DWG RELEASE.

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. SURFACE FINISH: REFER TO P.O.
CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
CHEM FILM PER MIL-DTL-5541F TYPE II CLASS 3 (RoHS COMPLIANT)
3. CONNECTORS: J1 LC FEMALE
J2-J5 SC FEMALE

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATON® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12565
INTERPRET DRAWING IN INCH MIL STD-100		SC	6/17/2014		
DIMENSIONS PER ASME Y14.5-2009		CHK	DATE		
DIMENSIONAL LIMITS FOR KEY USED ONLY		BW	6/17/2014		
DIMENSIONS ARE IN INCHES (mm)		INQ	DATE		
DIMENSIONAL LIMITS APPLY PER VISE PROCESSES TOLERANCES:		BW	6/17/2014		
ANGLES = 2° 3 P. & .003 (13) 2 P. & .015 (30)		REFG	DATE	OUTLINE SIZE CAGE CODE DWSG NO B 28812 21203-500	REV -
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE		
CHUCK/STRICTLY MACHINED DIA. .002 FDI		RLSE	DATE		
MACHINE TOOL RESISTOR .003 MAX		SCALE	1:4		
D10074 USED ON NEXT ASSY	APPLICATION	THIRD ANGLE PROJECTION		SHEET 1 OF 1	

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