

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"

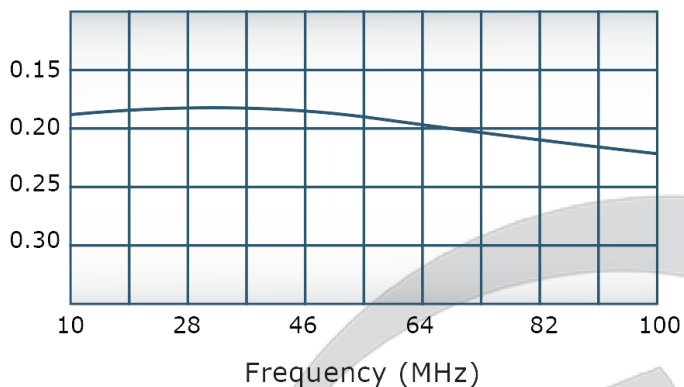
Connector Configurations:

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

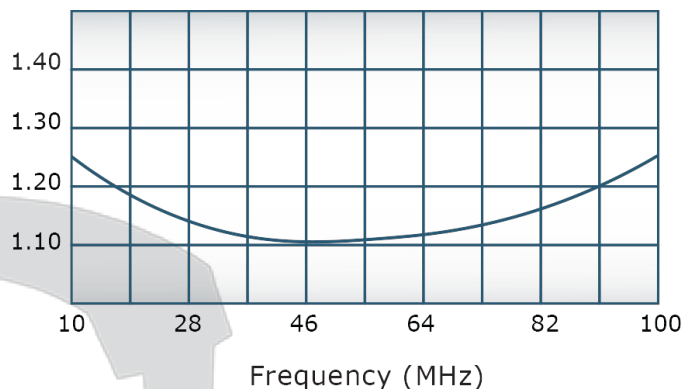
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

Performance Data (Specifications subject to change without notice):

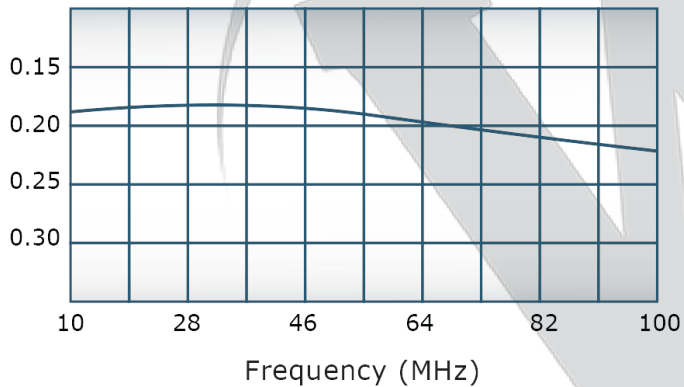
Insertion Loss:



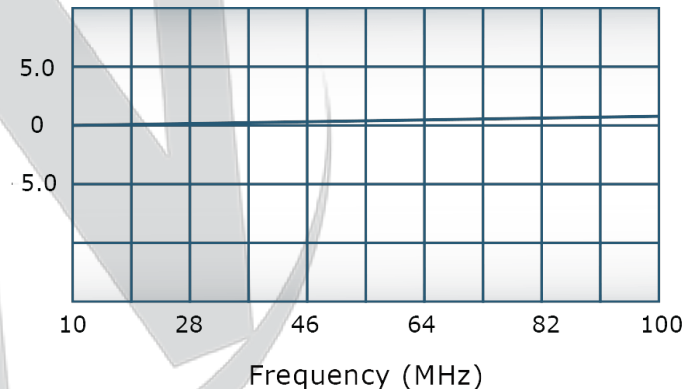
VSWR:



Insertion Loss:



Phase Balance:

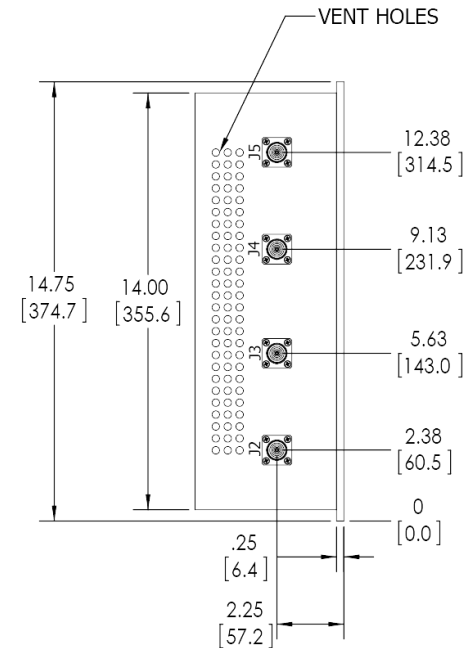
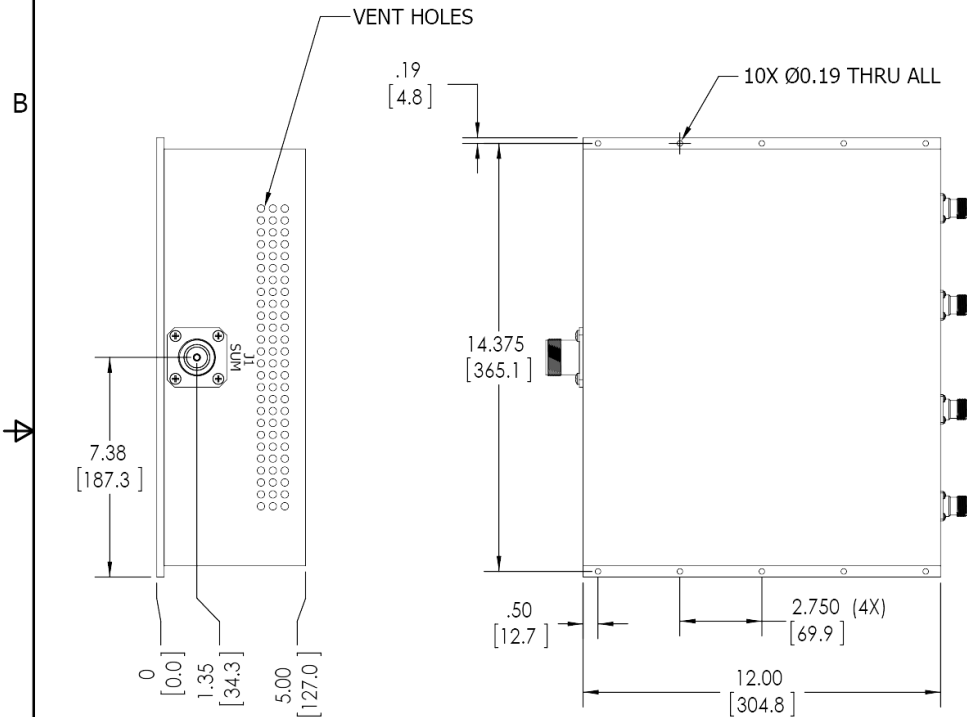


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REVISION HISTORY


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



PRELIMINARY DWG. SPECIFICATIONS MAY CHANGE PRIOR TO DWG RELEASE.

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- 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)
- CONNECTORS: J1 LC FEMALE**
J2-J5 SC FEMALE

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SC	6/17/2014	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHESES FOR REF ONLY		BW	6/17/2014	
DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 28812 21203-500
DIMENSIONAL LIMITS APPLY UNLESS OTHERWISE SPECIFIED		BW	6/17/2014	
TOLERANCES:		INFR	DATE	REV
ANGLES ± 2° 3 PL ± .005 (13) 2 PL ± .015 (38)		QA	DATE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		RLSE	DATE	SCALE
CONCENTRICITY MACHINED DIA. .002 FIM				
MACHINE TOOL MISMATCH .003 DIA.				SHEET 1 OF 1
APPLICATION				
D10074 USED ON				
THIRD ANGLE PROJECTION				

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