

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"

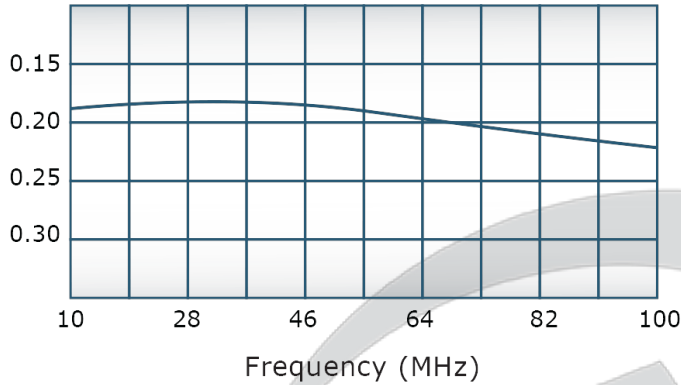
Connector Configurations:

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

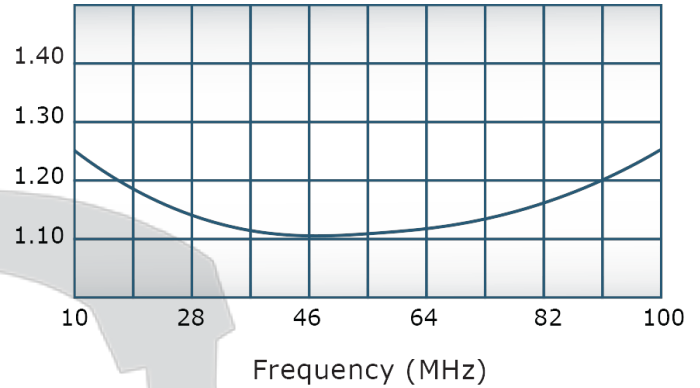
When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

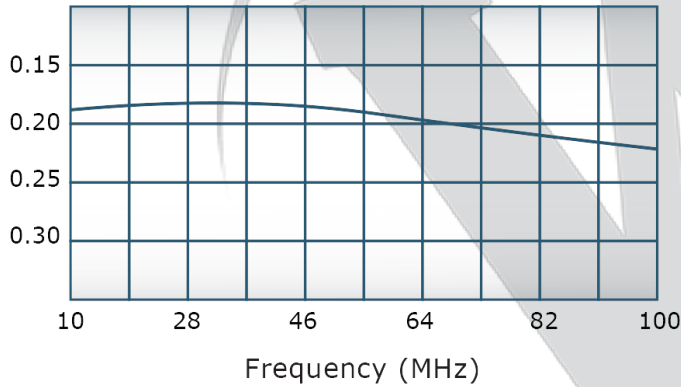
Insertion Loss:



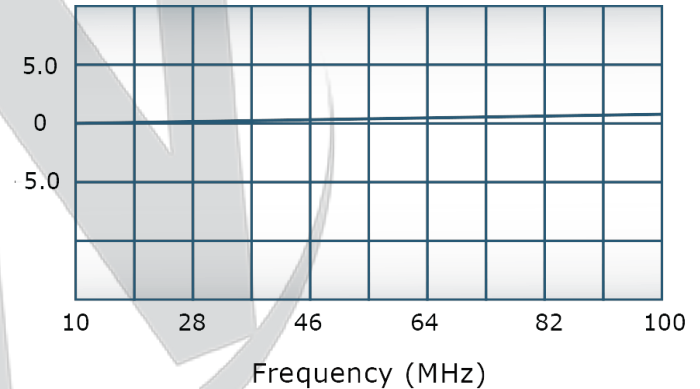
VSWR:



Insertion Loss:



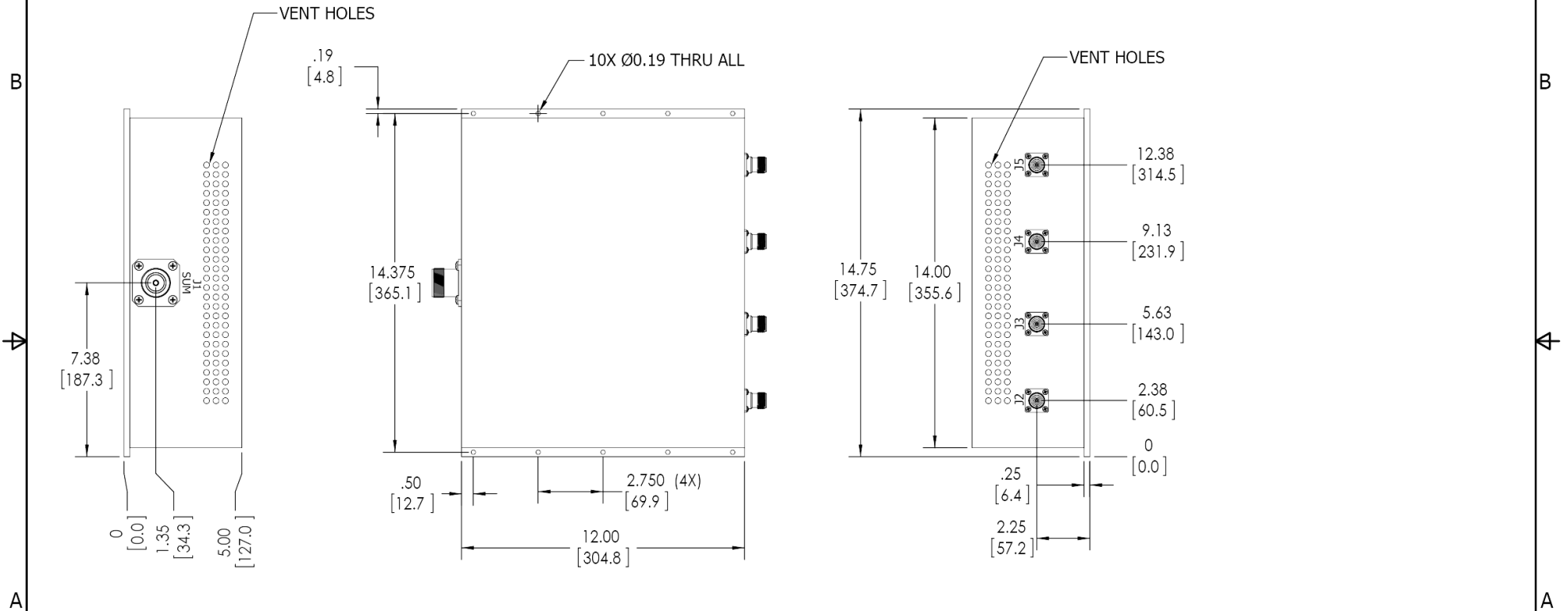
Phase Balance:



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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		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	DATE	SC	6/17/2014	
DIMENSIONS PER ASME Y14.5M-2009	DATE	CHK	6/17/2014	TITLE
PARENTHEetical INFO FOR REF ONLY	DATE	ENGR	6/17/2014	
DIMENSIONS ARE IN INCHES (mm)	DATE	INFR	6/17/2014	SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DATE	QA	6/17/2014	CAGE CODE
TOLERANCES:	DATE	RLSE	6/17/2014	DWG NO
ANGLES = 2°	DATE			REV
3 PL ± .005 (.13)	DATE			B
2 PL ± .015 (.38)	DATE			28812
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE			21203-500
CONCENTRICITY MACHINED DIA: .002 FIM	DATE			
MACHINE TOOL MISMATCH .003 MAX.	DATE			
APPLICATION	THIRD ANGLE PROJECTION			SCALE
				1:4
				SHEET 1 OF 1

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