

**PRODUCT DATA SHEET**
**D10803**

**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      Custom Designs Available

**Electrical Specifications:**

Frequency:	700 - 6500 MHz
Power:	300 W CW
Insertion Loss:	0.6 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° Max.
Amplitude Balance:	0.2 dB Max.
Isolation:	Non-Isolated

**Mechanical Specifications:**

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Electroless Nickel-ASTM B733 Type IV
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Weight:	1 lb. 2 oz. (-10)
Size:	5.5 x 2.4 x 1.06"

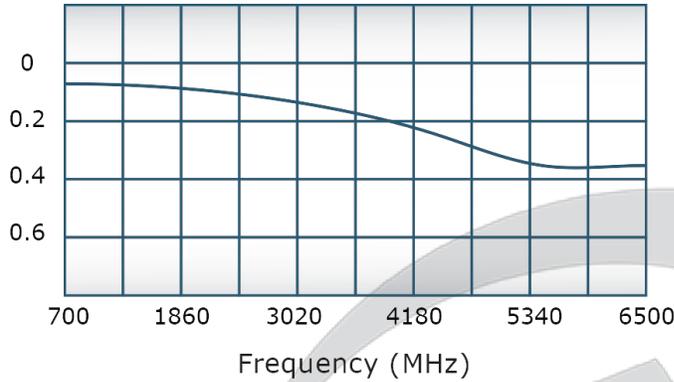
**Connector Configurations:**

<b>Model</b>	<b>Sum Port (J1)</b>	<b>Input/Output (J2)</b>	<b>Input/Output (J3)</b>
D10803-10	N Female	N Female	N Female
D10803-10RT	Rt. Angle N Female	Rt. Angle N Female	Rt. Angle N Female
D10803-12	N Female	SMA	SMA
D10803-20	7/16 Female	N Female	N Female

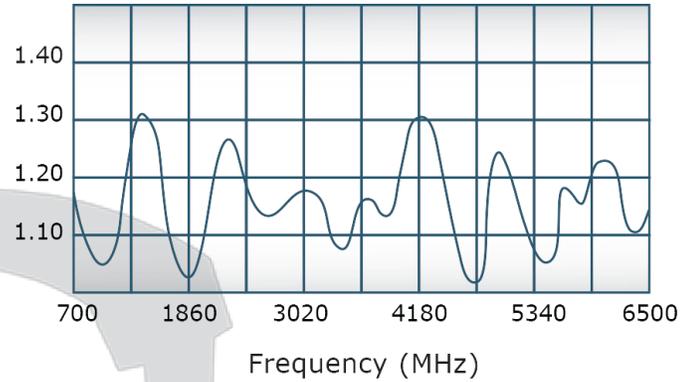
**When specified, Werlatone® High Power Combiners and RF Dividers** will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration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

## Performance Data (Specifications subject to change without notice):

Insertion Loss:



VSWR:

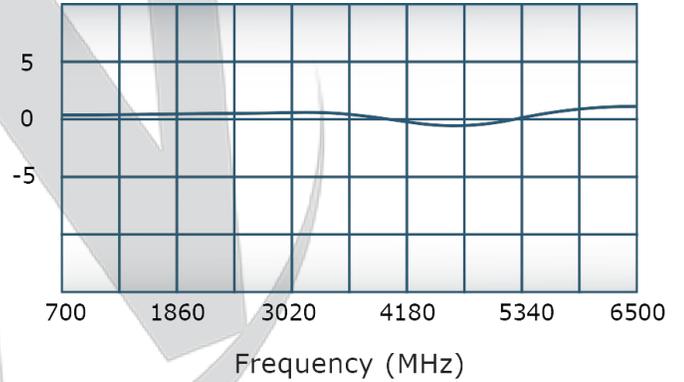


Since 1965:



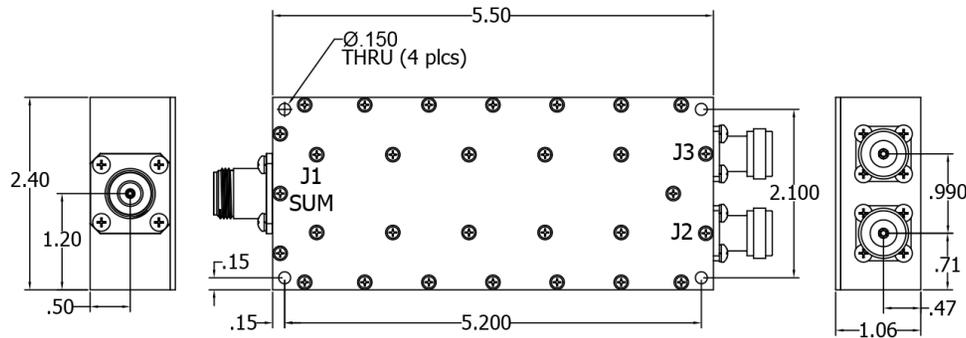
**SINCE 1965**

Phase Balance:



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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	10/17/2016	CS



21447-300	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE</b>   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
<ul style="list-style-type: none"> <li>• INTERPRET DRAWING LAW MIL-STD-100</li> <li>• DIMENSIONING PER ASME Y14.5M-2009</li> <li>• PARENTHESES INFO FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> </ul>		NH	10/17/16				
<ul style="list-style-type: none"> <li>• TOLERANCES: ANGLES ±.2-</li> <li>3 PL ±.005</li> <li>2 PL ±.015</li> </ul>		CHK	DATE	TITLE <h2>Outline</h2>			
THIRD ANGLE PROJECTION		CS	10/17/16				
		ENGR	DATE	SIZE	CAGE CODE	DWG NO	REV
		MFGR	DATE	A	28812	21447-500	-
		QA	DATE	SCALE			
		RLSE	DATE	1:2			SHEET 1 OF 1

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