



## 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:  $\pm 5^\circ$  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:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
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.



# WERLATONE

Model D10803

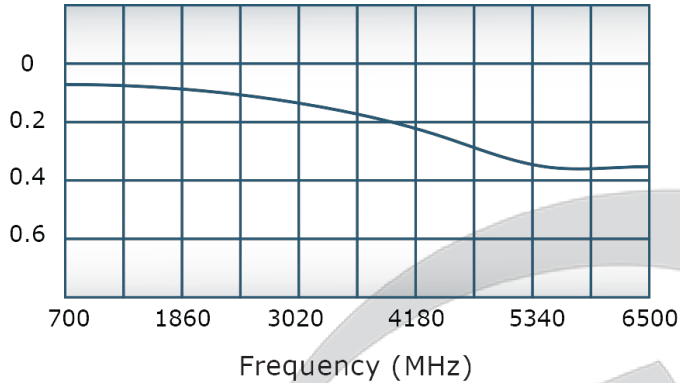
Combiners In-Phase Connectorized

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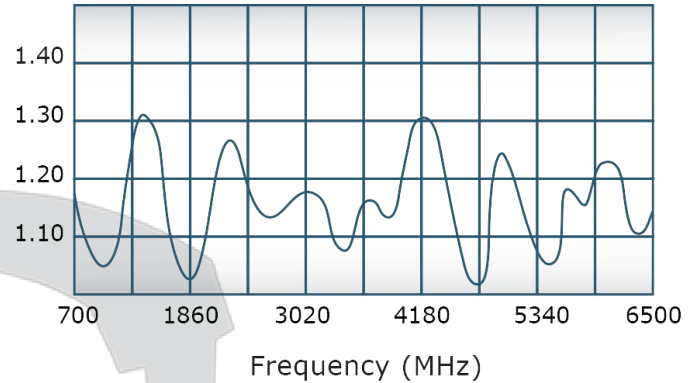
D10803

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

Insertion Loss:



VSWR:

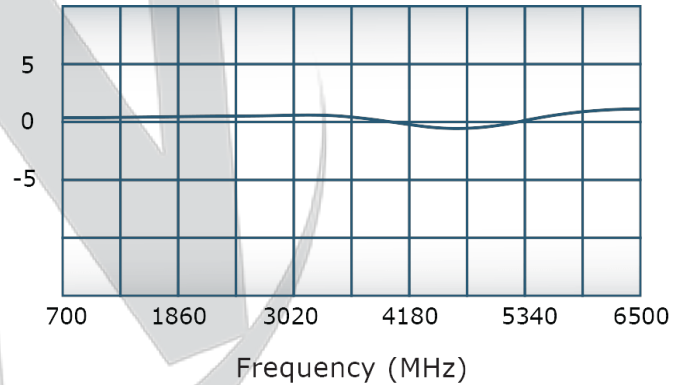


Since 1965:



SINCE 1965

Phase Balance:

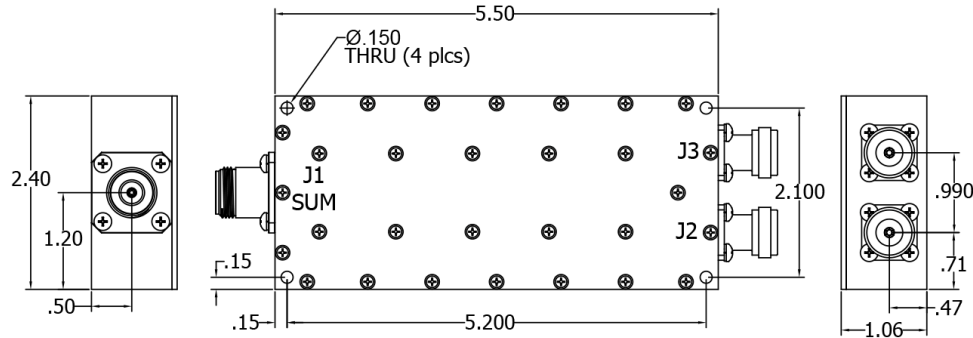


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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	10/17/2016	CS



21447-300	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED		DWN	DATE	<div><div></div><div>WERLATONE   SINCE 1965</div></div>		17 Jon Barrett Rd Patterson, NY 12563		
• INTERPRET DRAWING IAW MIL-STD-100		NH	10/17/16					
• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE				
• PARENTHEetical INFO FOR REF ONLY		CS	10/17/16					
• DIMENSIONS ARE IN INCHES		ENGR	DATE	Outline				
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	10/17/16					
• TOLERANCES: ANGLES $\pm 2^\circ$ 3 PL $\pm .005$ 2 PL $\pm .015$		MFGR	DATE	SIZE				CAGE CODE
		QA	DATE	A	28812	21447-500		-
		RLSE	DATE	SCALE		1:2		SHEET 1 OF 1
THIRD ANGLE PROJECTION		<div><div></div></div>						

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