



PRODUCT DATA SHEET

D7866

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: 400 - 2500 MHz
Power: 100 W CW
Insertion Loss: 0.4 dB Max.
VSWR: 1.35:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.35 dB Max.
Isolation: 15 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: 4.7 x 2.0 x 0.8"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D7866-10	N Female	N Female	N Female
D7866-12	N Female	SMA	SMA
D7866-102	SMA	SMA	SMA

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 D7866

Combiners In-Phase Connectorized

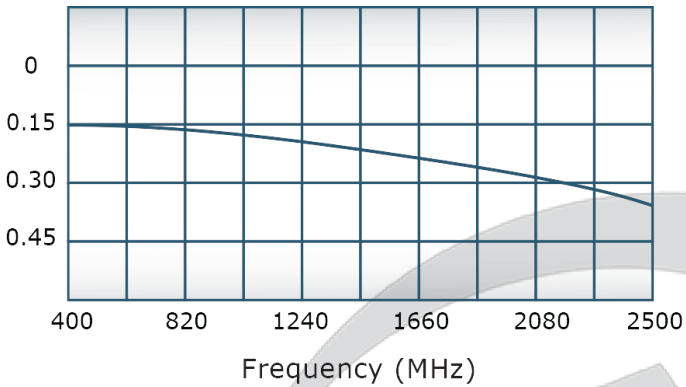


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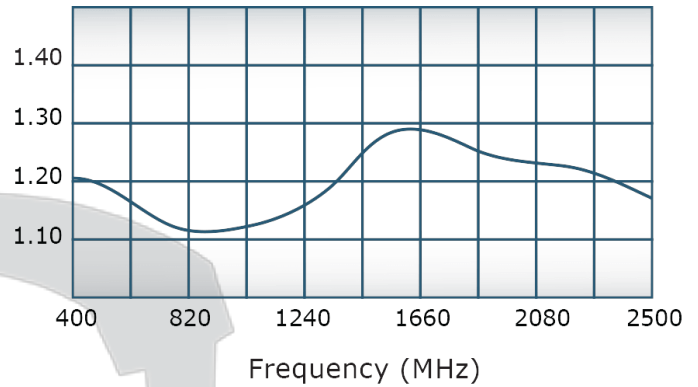
D7866

Performance Data (Specifications subject to change without notice):

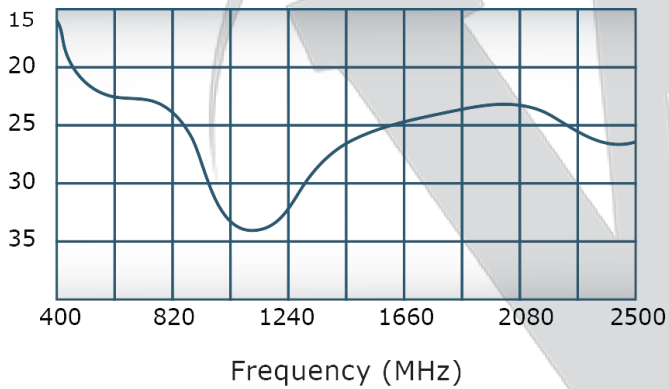
Insertion Loss:



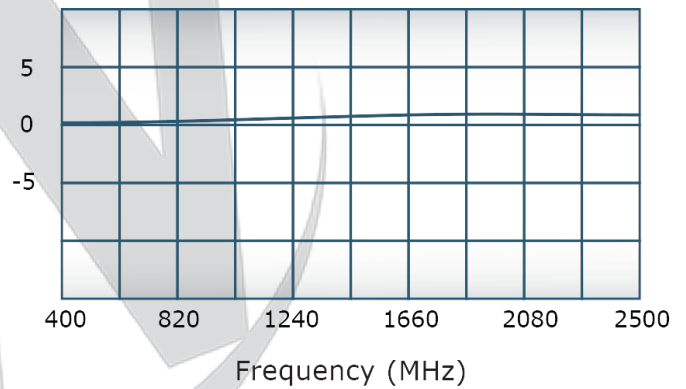
VSWR:



Isolation:



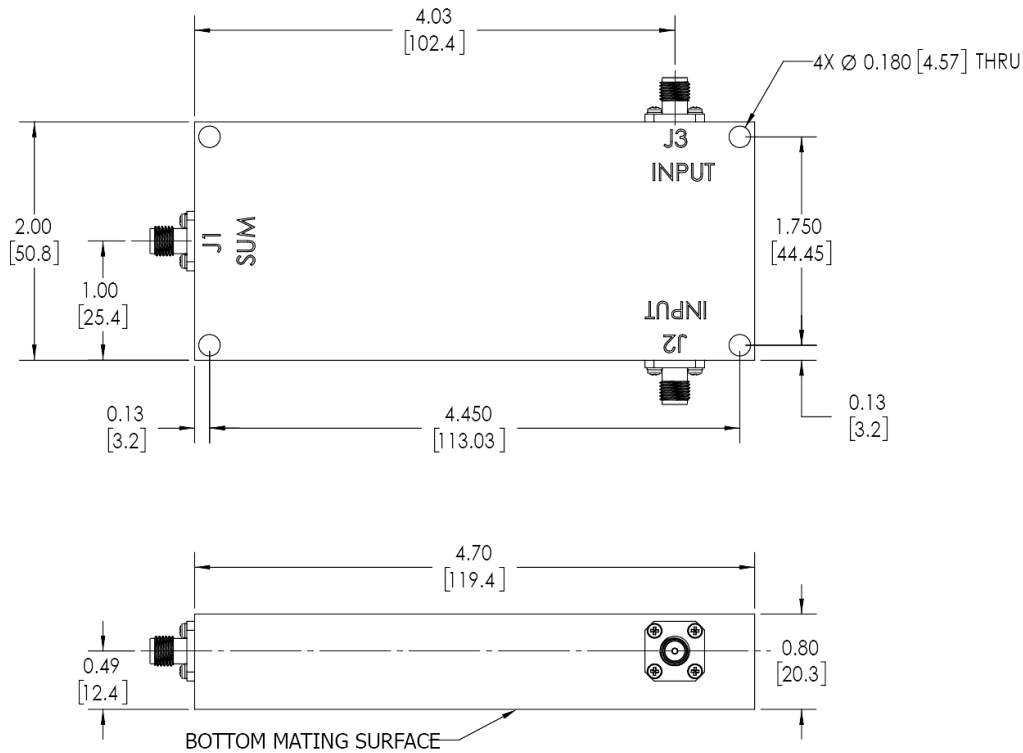
Phase Balance:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 4961	09/10/09	BW
B	ECN 9174	09/21/16	CS
C	ECN 9696	11/20/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED
 1. **MATERIAL: ALUMINUM 6061-T6**
 2. **FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
 3. **CONNECTORS:**
J1-J3: SMA FEMALE

UNLESS OTHERWISE SPECIFIED		DWN	DATE	11/20/2019		17 Jon Barrett Rd Patterson, NY 12563		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	DATE	11/20/2019		W WERLATONE SINCE 1965		
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	11/20/2019				
PARENTHESES FOR REFERENCE ONLY		CS	DATE	11/20/2019				
DIMENSIONS ARE IN INCHES		ENGR	DATE	11/20/2019				
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INPR	DATE	11/20/2019				
TOLERANCES:		QA	DATE	11/20/2019				
ANGLES ± 2°		RLSE	DATE	11/20/2019				
3 PL ± .005 [13]								
2 PL ± .015 [38]								
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								
CONCENTRICITY MACHINED DIA. .002 F/M								
MACHINE TOOL MISMATCH .003 F/M								
THIRD ANGLE PROJECTION								
NEXT ASSY	USED ON			SIZE		CASE CODE	DWG NO	REV
APPLICATION		THIRD ANGLE PROJECTION		SCALE		20291-500		C
				1:1				SHEET 1 OF 1

19		W		WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
19		TITLE					
		OUTLINE					
SIZE		CAGE CODE		DWG NO		REV	
B				20291-500		C	
SCALE		1:1				SHEET 1 OF 1	

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