

PRODUCT DATA SHEET

D9853

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:	700 - 2700 MHz
Power:	200 W CW
Insertion Loss:	0.5 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	± 5° Max.
Amplitude Balance:	0.25 dB Max.
Isolation:	20 dB Min.

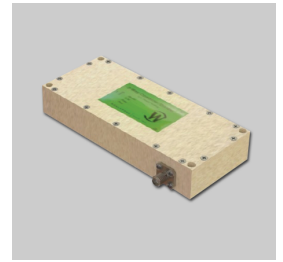
Mechanical Specifications:

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:	4.7 x 2.0 x 0.8"

Connector Configurations:

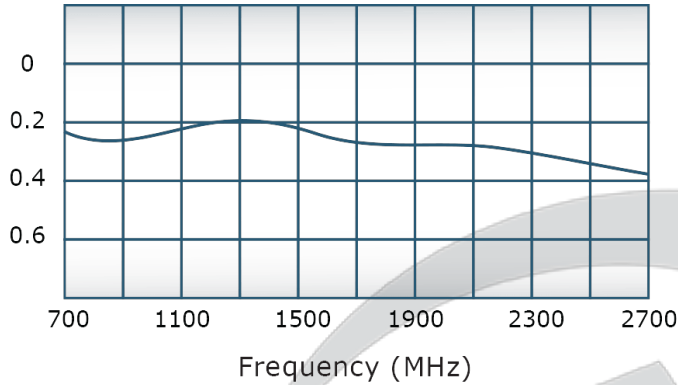
Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D9853-10	N Female	N Female	N Female
D9853-12	N Female	SMA	SMA
D9853-102	SMA	SMA	SMA

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.

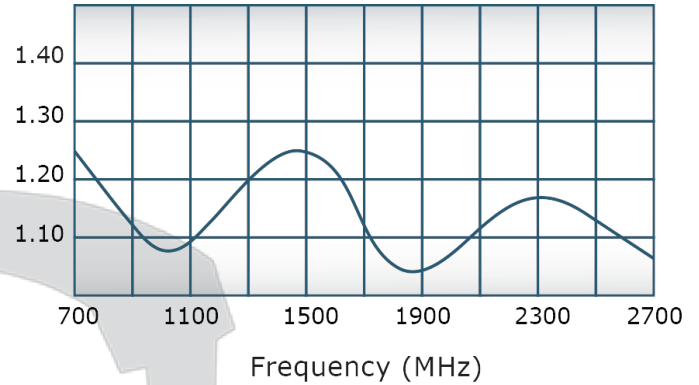


Performance Data (Specifications subject to change without notice):

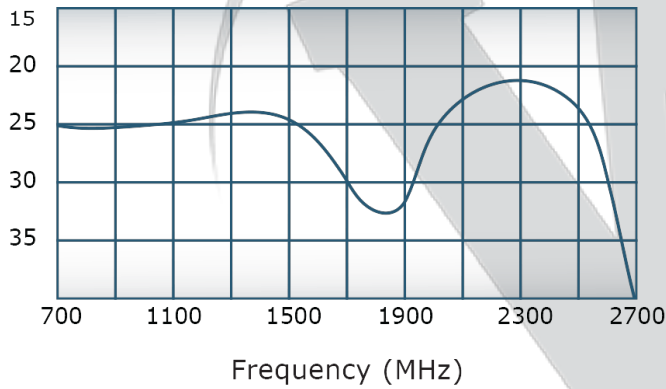
Insertion Loss:



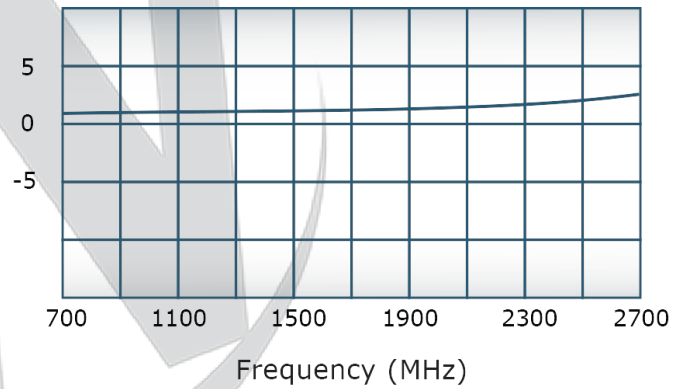
VSWR:



Isolation:

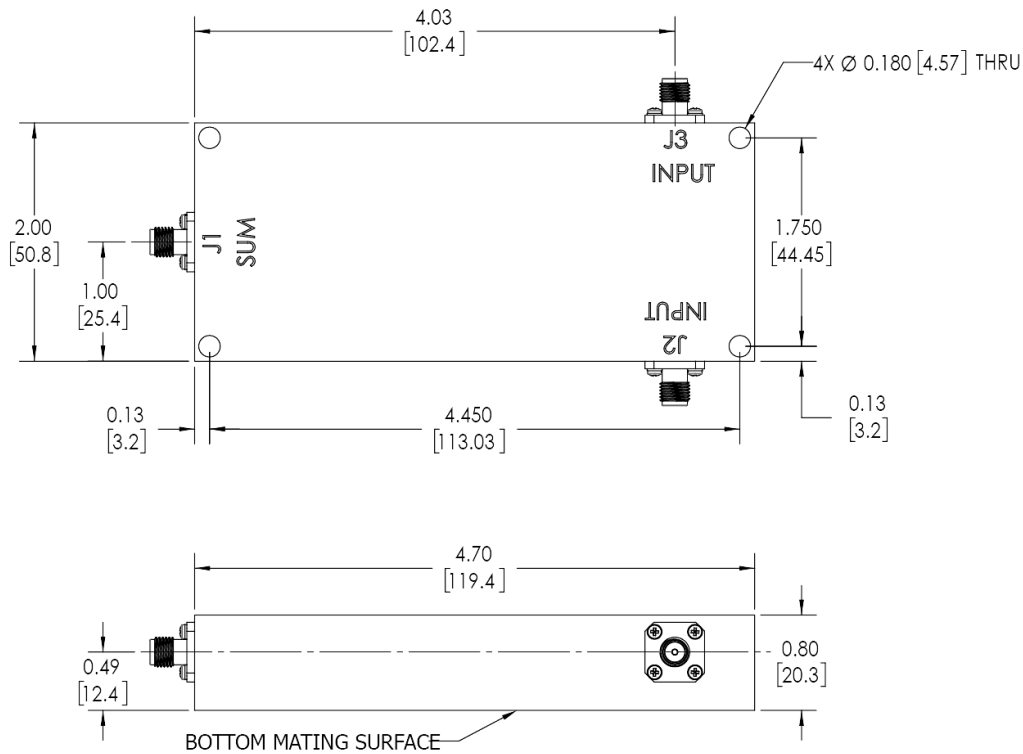


Phase Balance:



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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

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

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

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