


**PRODUCT DATA SHEET**
**D9623**

**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:	1000 - 3000 MHz
Power:	500 W CW
Insertion Loss:	0.45 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° Max.
Amplitude Balance:	0.3 dB Max.
Isolation:	Non-Isolated

**Mechanical Specifications:**

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS, Trivalent)
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Size:	5.5 x 4.25 x 1.6"

**Connector Configurations:**

Model	Sum Port (J5)	Input/Output (J1-J4)
D9623	SC Female	N Female
D9623-20	7/16 Female	N Female
C9623-CF-43*	SC Female	N Female

\*Unit designed for 95%, Condensing, MIL-810-G, Method 507, utilizing conformal coating on circuit (Humiseal), connector type shall insure protection against dissimilar metals.\*

**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.

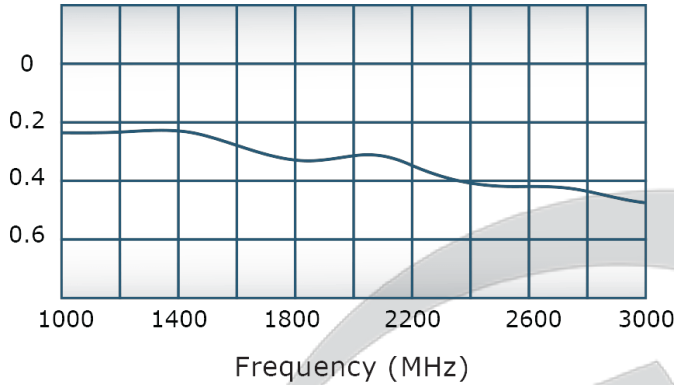


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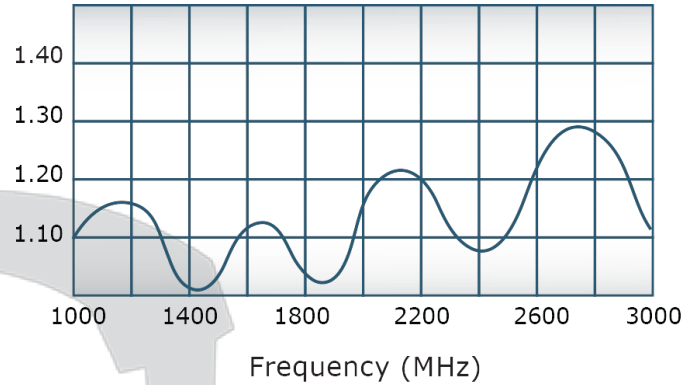
D9623

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

Insertion Loss:



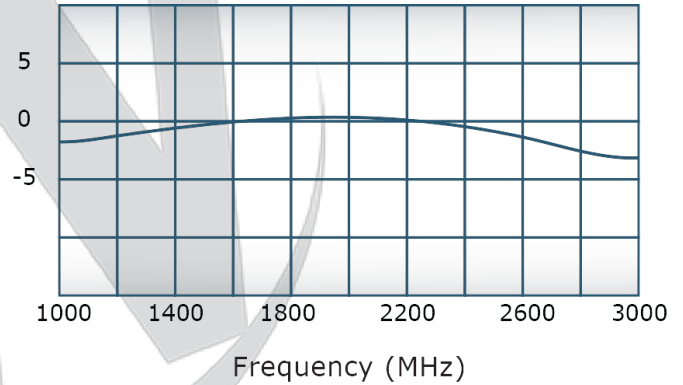
VSWR:



Since 1965:



Phase Balance:



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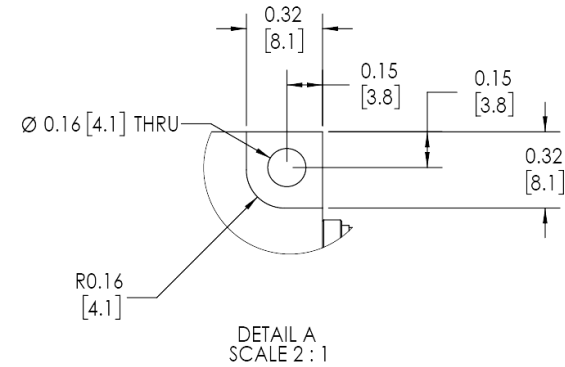
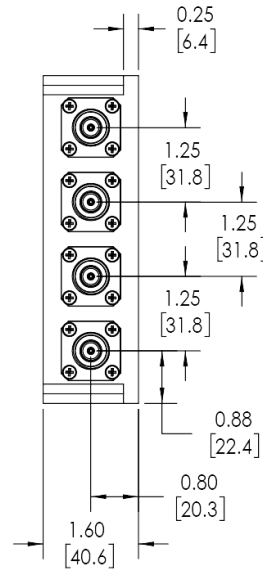
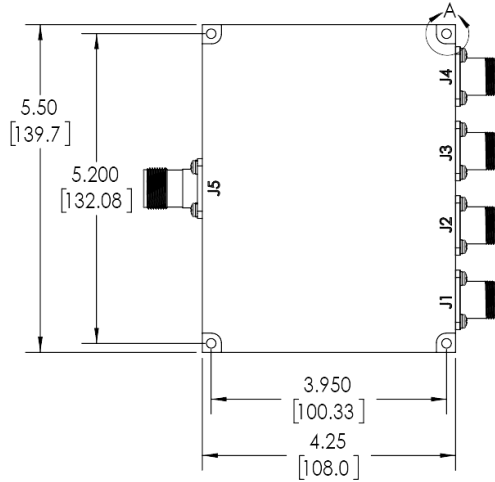
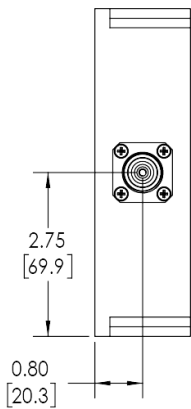
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	7/15/2013	BW
A	ECN 8853	7/20/2015	BW
B	ECN 9696	11/25/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
 J1-J4: N FEMALE  
 J5: SC FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	11/25/2019	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHEetical INFO FOR REF ONLY		CS	11/25/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	<b>OUTLINE</b> SIZE CAGE CODE DWG NO B 21028-500
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INFR	DATE	
TOLERANCES:		QA	DATE	REV B
ANGLES = 2°		RLSE	DATE	
3 PL ± .005 (.13)				SCALE 1:2
2 PL ± .015 (.38)				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
CONCENTRICITY MACHINED DIA: .002 FIM				
MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

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