

PRODUCT DATA SHEET

D10820

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:	800 - 2000 MHz
Power:	1500 W CW
Insertion Loss	0.4 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	$\pm 5^\circ$ Max.
Amplitude Balance:	0.25 dB Max.
Isolation:	11 dB Min.

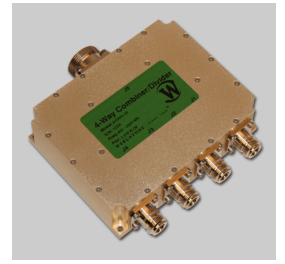
Mechanical Specifications:

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
Weight:	2 lbs. 12 oz.
Size:	5.5 x 4.25 x 1.6"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D10820-20	7/16 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.

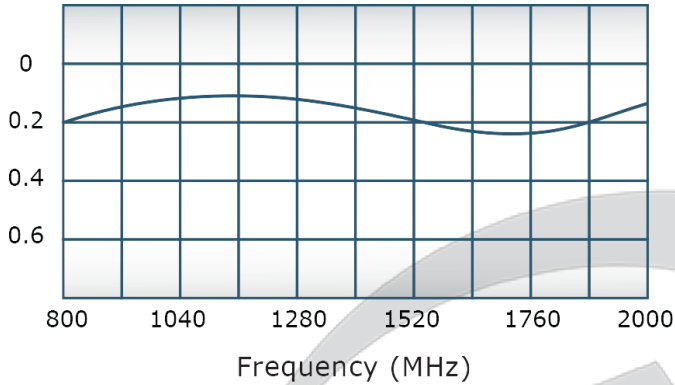


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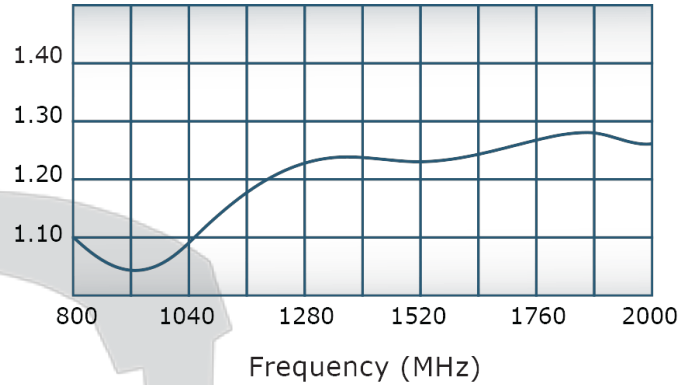
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Performance Data (Specifications subject to change without notice):

Coupling:



VSWR:

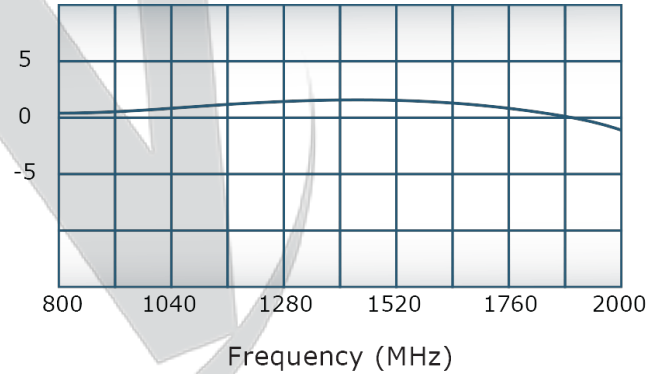


Since 1965:



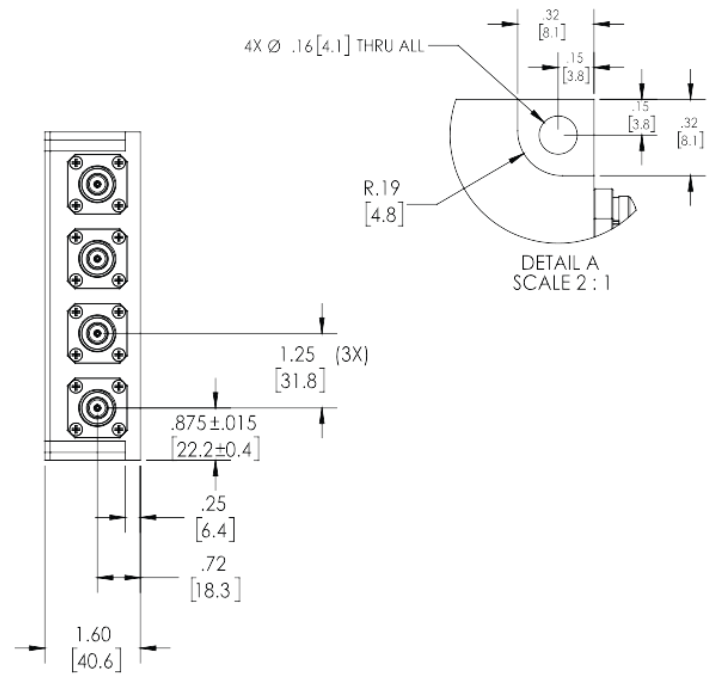
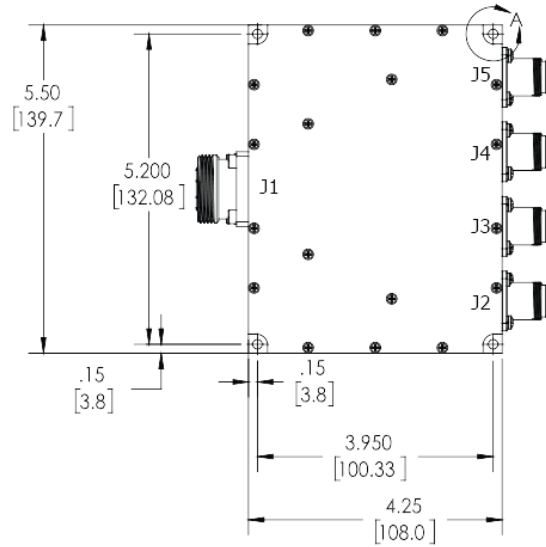
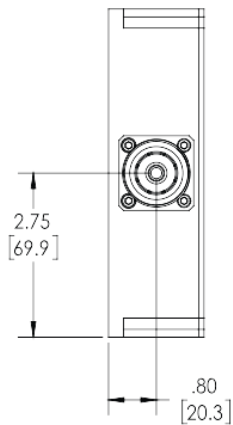
SINCE 1965

Phase Balance:



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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/1/2013	BW
A	ECN 8563	2/14/2014	BW
B	ECN 9844	10/3/2019	BW



UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING IN ACCORDANCE WITH ISO 1502		GP	3/1/2013	WERLATONE SINCE 1965	
• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE		
• DIMENSIONAL UNITS ARE IN INCHES (mm)		CS	3/1/2013	TITLE	
• DIMENSIONAL UNITS APPLY BEFORE PROCESSING		ENGR	DATE		
• TOLERANCES		DEGR	DATE	D9343 4-WAY COMBINER/DIVIDER	
ANGLES ± .2°		QA	DATE		
3 PL ± .005 [13]		RLSE	DATE	SCALE 1:2	
2 PL ± .015 [38]		DATE	DATE		
APPLICATION		THIRD ANGLE PROJECTION		SHEET 1 OF 1	

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