



## PRODUCT DATA SHEET

D10629

**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: 80 - 1000 MHz  
 Power: 2000 W CW (80-400 MHz), 1600 W CW (400-600 MHz), 1000 W CW (600-1000 MHz)  
 Insertion Loss: 0.65 dB Max.  
 VSWR: 1.35:1 Max.  
 Phase Balance:  $\pm 5^\circ$  Max.  
 Amplitude Balance: 0.3 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  
 Weight: 4 lbs.  
 Size: 5.7 x 4.7 x 1.75"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D10629-10	N Female	N Female
D10629-20	7/16 Female	N Female
D10629-22	7/16 Female	SMA
D10629-41	SC 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.

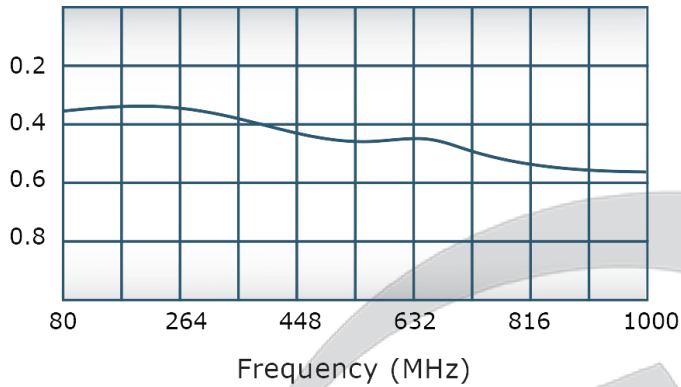


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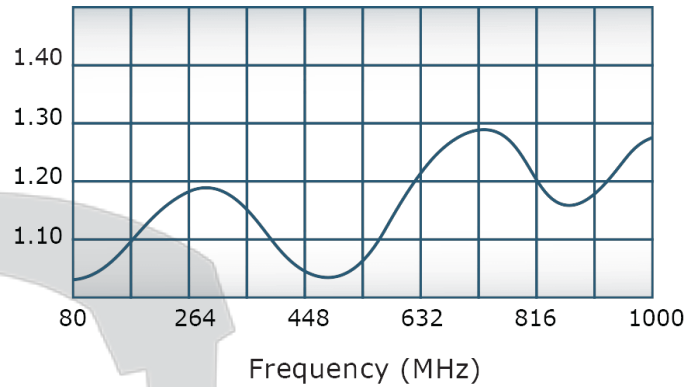
D10629

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

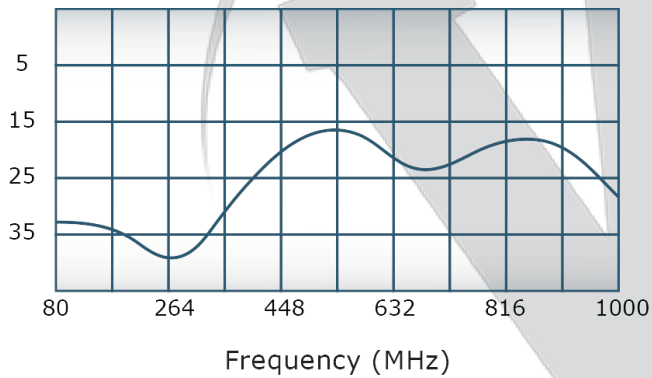
Insertion Loss:



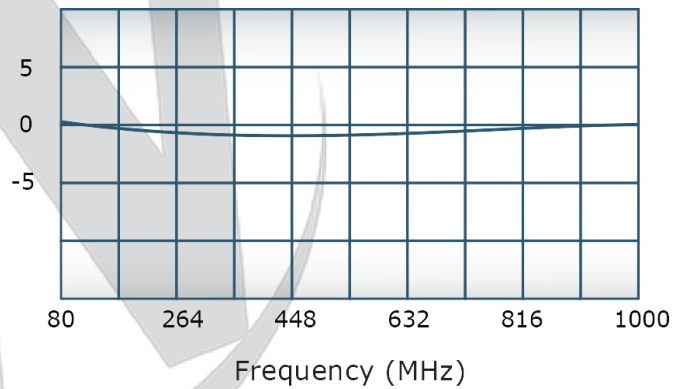
VSWR:



Isolation:



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			AUTH	CHK	APPV
DATE	REV	REVISION RECORD			
7/28/11	-	INITIAL RELEASE	PR		
5/28/13	A	SLP	PR		
12/14/15	B	SPL	PK		

**UNLESS OTHERWISE SPECIFIED:**

- \* IN TOLERANCE DRAWING DIMENSIONS - ISO
- \* DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE
- \* DIMENSIONS ARE TO CENTER UNLESS NOTED OTHERWISE
- \* DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
- \* DIMENSIONAL CHANGES APPLY BEFORE PROCESSING

**TOLERANCES:**

ANGLES	DIMENSIONS
± 1°	.001
± .001	.005
± .005	.015

**HOLE TOLERANCES = DIA ± .001**

**RADIOUS ALL BURS AND SHARP EDGES .01 R MAX**

**CONCENTRICITY FINISHED DIA. .005 FDN**

**MACHINE TOOL VARIATION .005 MAX**

**THIRD ANGLE PROJECTION**

**WELATONE | SINCE 1965**

**17 Jon Barrett Rd  
Patterson, NY 12563**

**OUTLINE**



**D9075**

**C 28812 20788-500**

**1:1**

**SHEET 1 OF 1**

REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
7/28/11	-	INITIAL RELEASE	PR		
5/28/13	A	8196	PR		
12/14/18	B	9718	PK		

UNLESS OTHERWISE SPECIFIED	DATE	7/28/2011	 <b>WERLATONE SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563
* INTERIOR DRAWING DATA VERLATONE-000 * DIMENSIONING PER ASME Y14.5M-2009 * MACHINICAL UNDO NOT REPT ONLY * DIMENSIONING ARE IN THOUSHS * DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	PR	DATE	<b>OUTLINE</b> D9075	
* TOLERANCES ANGLES            • 2° • .005 • .01 * HOLE TOLERANCES - DIA-ONLY * REMOVE ALL BURRS AND SHARP EDGES 0.1 R MAX * CHAMFER TOP/END - CHAMFER DIA. 0.0625 R * FINISHES TOOL FINISH/0.0008	CHK	DATE	SIZE    CAGE CODE    MFG NO <b>C    28812    20788-500</b>	
THIRD ANGLE PROJECTION 	SIZE	DATE	SCALE: 1:1	
			SHEET 1 OF 1	

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