

**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:            20 - 1000 MHz  
 Power:                1,000 W CW, 250 W / Input Non-Coherent  
 Insertion Loss:      0.8 dB Max.  
 VSWR:                1.40:1 Max.  
 Phase Balance:      ± 5° Max.  
 Amplitude Balance: 0.3 dB Max.  
 Isolation:            18 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:                    6.25 x 6.5 x 2.25"

**Connector Configurations:**

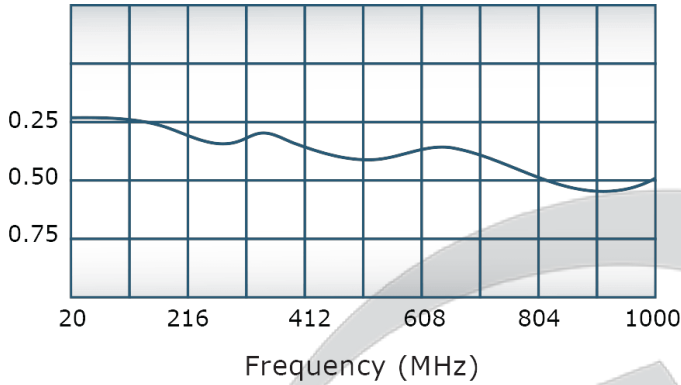
Model	Sum Port (J1)	Inputs/Outputs (J2,J3)	Isolated Load Port (J4)
D10249-10	N Female	N Female	N Female
D10249-20	7/16 Female	N Female	N Female

**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.

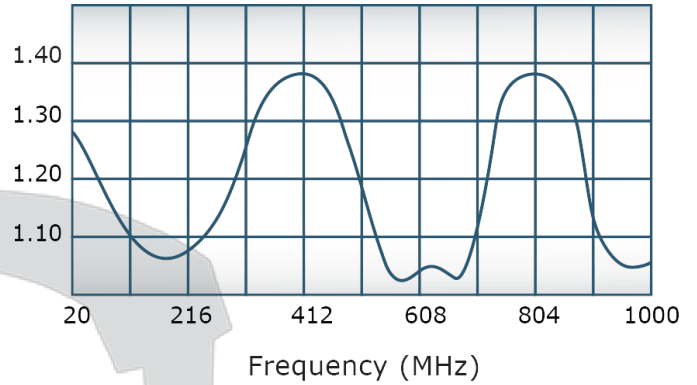


## Performance Data (Specifications subject to change without notice):

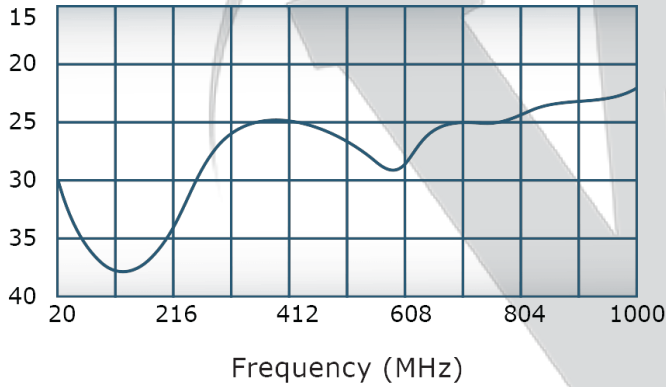
Insertion Loss:



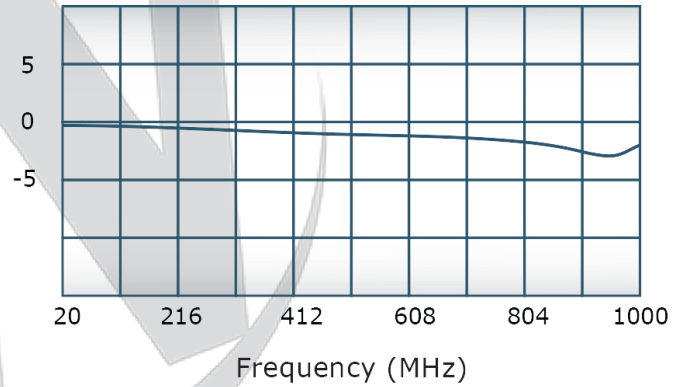
VSWR:



Isolation:



Phase Balance:



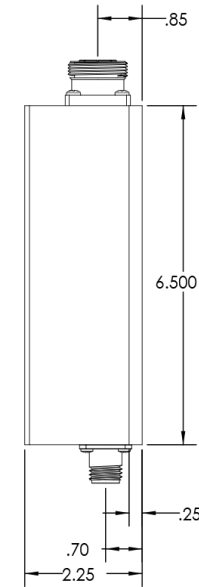
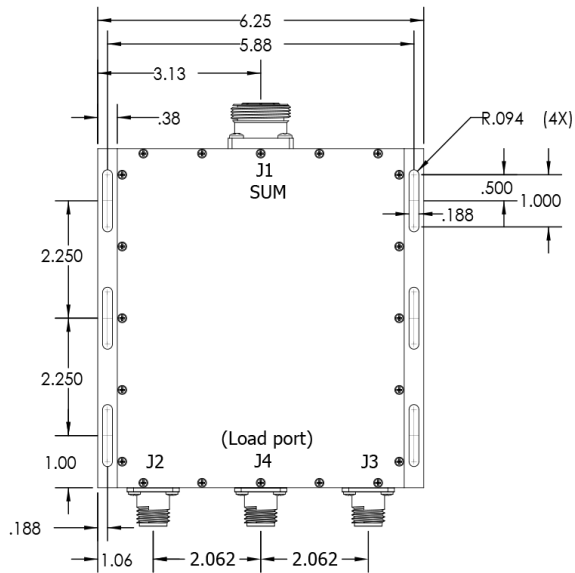
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

Werlatone, Inc.

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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
 This document contains proprietary information which is the sole property of Werlatone, Inc.

REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	7/28/15	



UNLESS OTHERWISE SPECIFIED		DATE	7/28/15	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERSP. DRAWING (AWI MIL-STD-100)	DATE	7/28/15		
DIMENSIONS PER ASME Y14.5M-2009	DATE			<b>OUTLINE</b> TITLE
ISOMETRIC DIMS FOR REF ONLY	DATE			
DIMENSIONS ARE IN INCHES	DATE			SIZE CAGE CODE DWG NO <b>B 28812 21337-500</b>
DIMENSIONAL UNITS APPLY BEFORE PROCESSES	DATE			
TOLERANCES:	DATE			REV -
ANGLES = 3°	DATE			
3 PL ± .015	DATE			SCALE <b>1:2</b>
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE			
CONCENTRICITY FINISHED DIA = .002 FPM	DATE			SHEET 1 OF 1
MACHINE TOOL MISMATCH .003 MAX	DATE			
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.  
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com