



**PRODUCT DATA SHEET**

**D2413**

**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:                    50 - 200 MHz  
 Power:                        4000 W CW  
 Insertion Loss:            0.4 dB Max.  
 VSWR:                        1.30:1 Max.  
 Phase Balance:            ± 5° Max.  
 Amplitude Balance:      0.2 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  
 Weight:                        28 lbs.  
 Size:                            17.0 x 18.0 x 5.0"

**Connector Configurations:**

Model	Sum Port (J5)	Input/Output (J1-J4)
D2413-41	SC Female	N Female
D2413-70	7/8" EIA	N Female
D2413-87	1 5/8" EIA	SC Female
D2413-231	7/16 Female	SC Female
D2413-391	LC Female	HN 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.

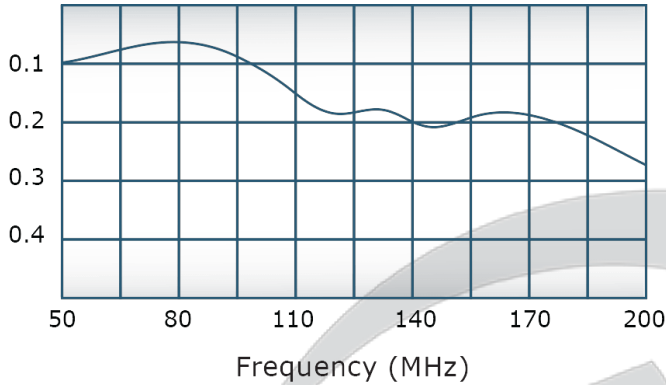
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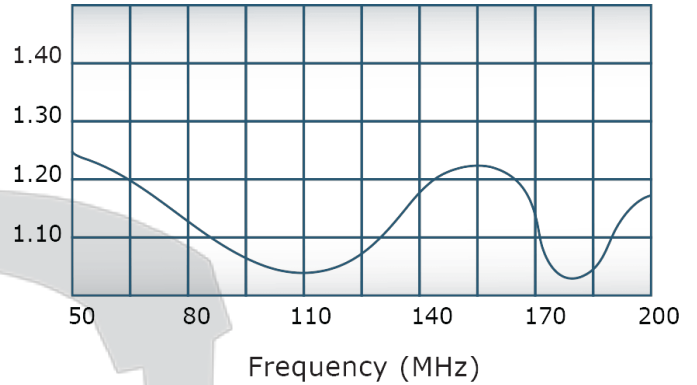


## Performance Data (Specifications subject to change without notice):

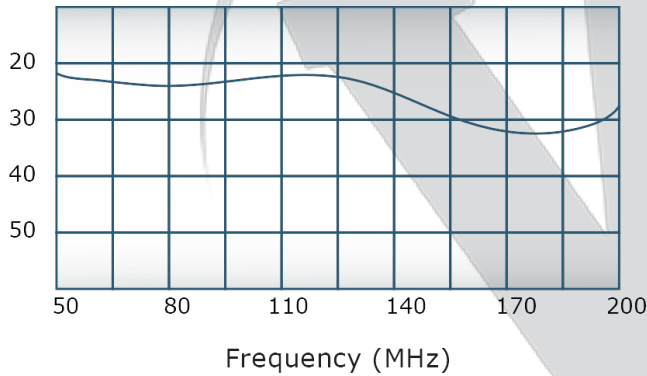
Insertion Loss:



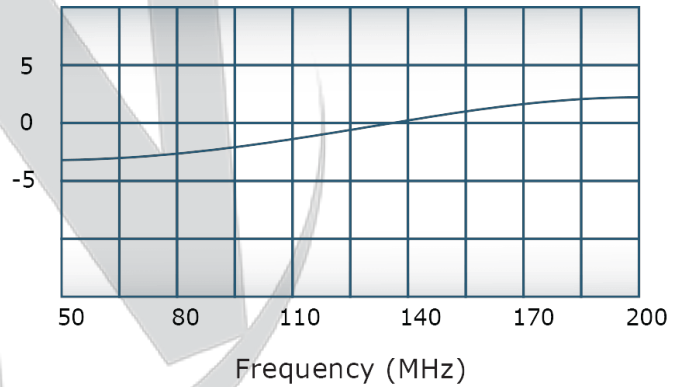
VSWR:



Isolation:



Phase Balance:



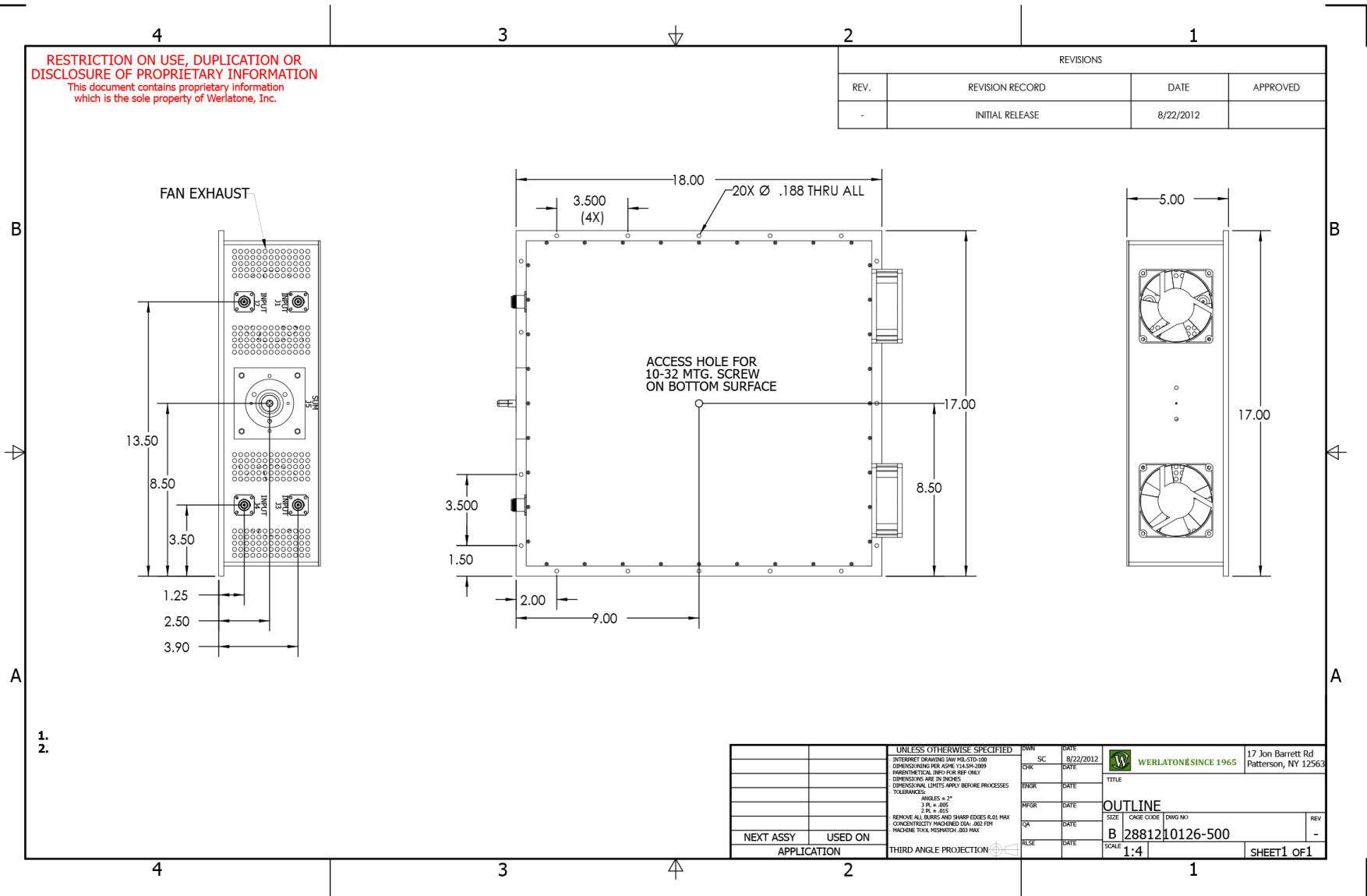
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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	8/22/2012	



UNLESS OTHERWISE SPECIFIED		OWN	DATE	<b>WERLATONE SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SC	8/22/2012	
DIMENSIONS ARE IN INCHES		CHK	DATE	TITLE
DIMENSIONAL UNITS APPLY BEFORE PROCESSES		ENGR	DATE	
TOLERANCES:		MPGR	DATE	<b>OUTLINE</b> SIZE CAGE CODE DWG NO
ANGLES ± 3°		QA	DATE	
3 RL ± .015		RELE	DATE	<b>B 2881210126-500</b>
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				REV
CONCENTRICITY FRACTURED DIA. .002 FPM				-
MACHINE TOOL MISMATCH .003 MAX				SHEET 1 OF 1
NEXT ASSY	USED ON	SCALE <b>1:4</b>		
APPLICATION	THIRD ANGLE PROJECTION			

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