



## PRODUCT DATA SHEET

D8383

**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:	1000 W CW
Insertion Loss:	0.5 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° Max.
Amplitude Balance:	0.2 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
Weight:	10 lbs.
Size:	13.0 x 7.0 x 2.22"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D8383-20	7/16 Female	N Female	N Female
D8383-24	7/16 Male	N Female	N Female
D8383-41	SC Female	N Female	N Female
D8383-70	7/8" EIA	7/8" EIA	7/8" EIA

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

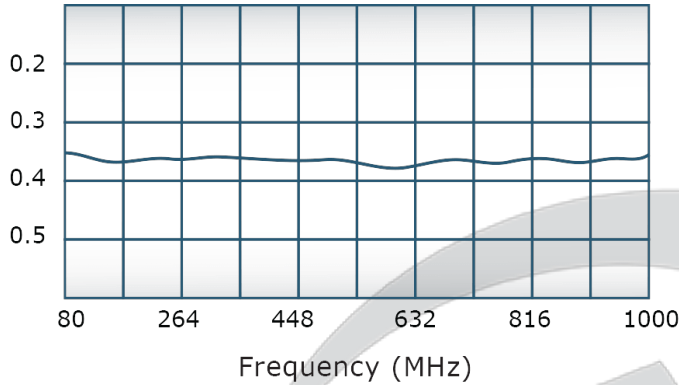


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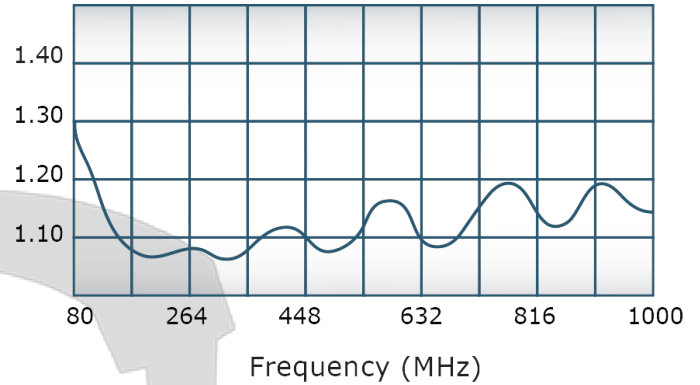
D8383

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

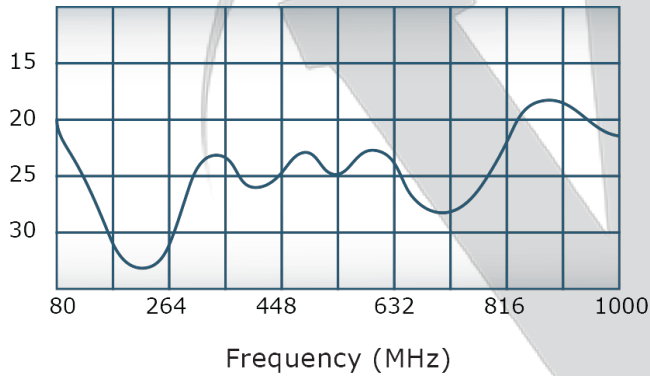
Insertion Loss:



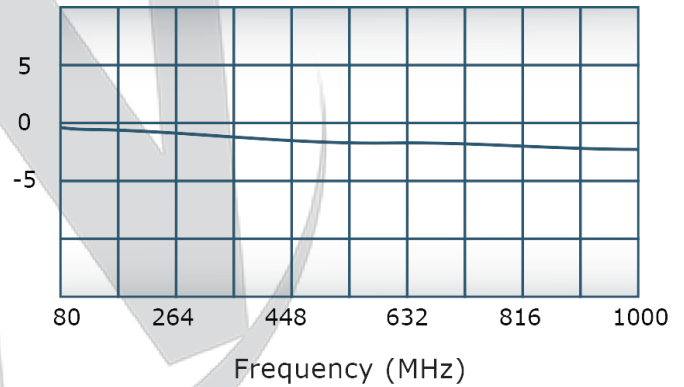
VSWR:



Isolation:



Phase Balance:



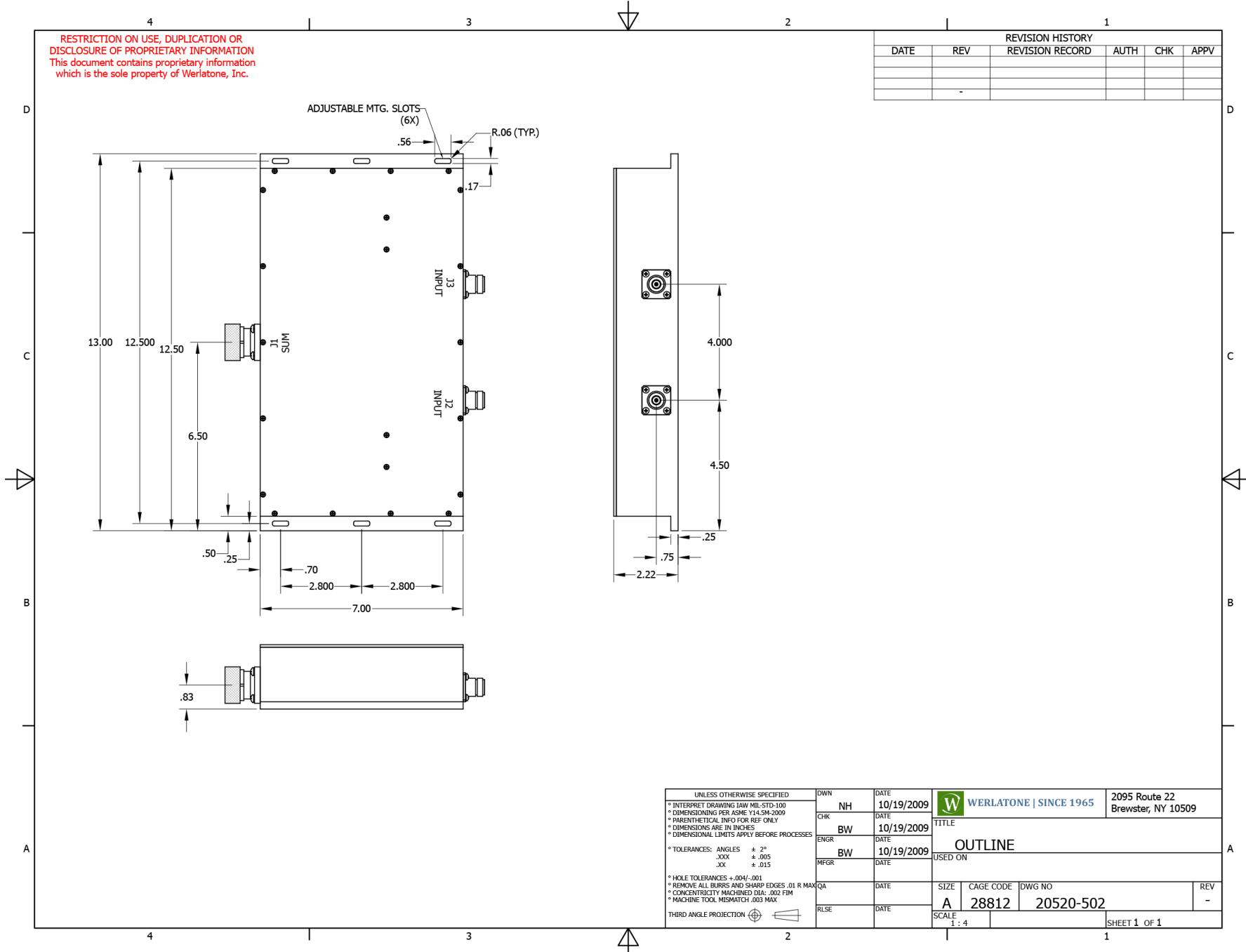
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE   SINCE 1965</b> 2095 Route 22 Brewster, NY 10509
* INTERPRET DRAWING IAW MIL-STD-100 * DIMENSIONING PER ASME Y14.5M-2009 * PARENTHEetical INFO FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		NH	10/19/2009	
* TOLERANCES: ANGLES    ± 2° .XXX    ± .005 .XX     ± .015		CHK	DATE	TITLE <b>OUTLINE</b> USED ON
* HOLE TOLERANCES ±.004/-.001 * REMOVE ALL BURRS AND SHARP EDGES .01 R MAX * CONCENTRICITY MACHINED DIA: .002 FIM * MACHINE TOOL MISMATCH .003 MAX		BW	10/19/2009	
THIRD ANGLE PROJECTION		ENGR	DATE	SIZE    CAGE CODE    DWG NO <b>A    28812    20520-502</b>
		BW	10/19/2009	
		MFR	DATE	SCALE 1 : 4
		QA	DATE	
		RLSE	DATE	REV
				-
				SHEET 1 OF 1

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