



PRODUCT DATA SHEET

H6286

Werlatone® High Power 180° RF Hybrid Combiners/Dividers balance traditional technologies with disruptive microwave techniques. The outcome is a microwave component which provides an order of magnitude improvement over current capabilities. Our newest line of high power, patented 180° RF Hybrid Combiners/Dividers provides an incredible 5:1 bandwidth, while exhibiting exceptionally low loss and superior port-to-port isolation.

Features:

High Power Wide Bandwidths Small Size Excellent Amplitude Balance

Electrical Specifications:

Frequency: 2 - 32 MHz
 Power: 1000 W CW
 Insertion Loss: 0.3 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: 180° ± 5° Max.
 Amplitude Balance: ± 0.1 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: 4 lbs. 4 oz.
 Size: 8.25 x 4.5 x 2.69"

Connector Configurations:

Model	Sum Port (J1)	Inputs (J3,J4)	Diff. Port (J2)
H6286-10	N Female	N Female	N Female
H6286-20	7/16 Female	N Female	N Female
H6286-41	SC Female	N Female	N Female

Werlatone's standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference ports is minimal, allowing the hybrid to handle high power over its frequency range. Custom requirements are welcome.

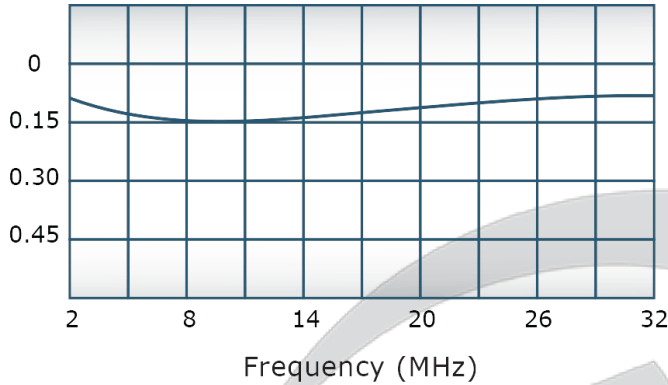
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

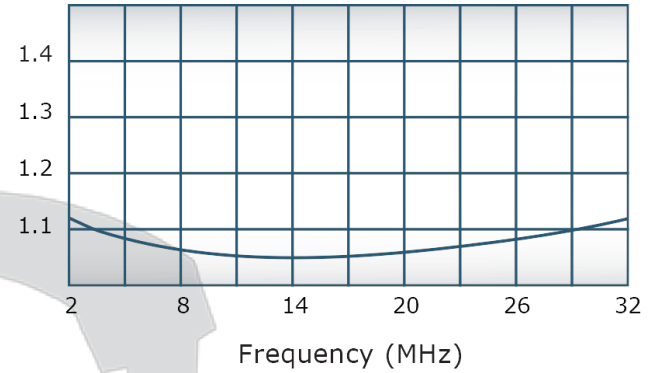


Performance Data (Specifications subject to change without notice):

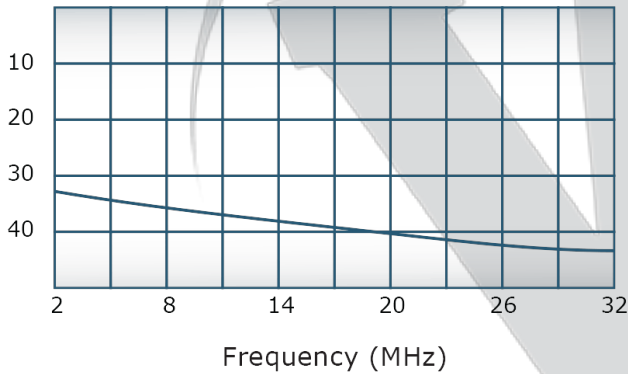
Insertion Loss:



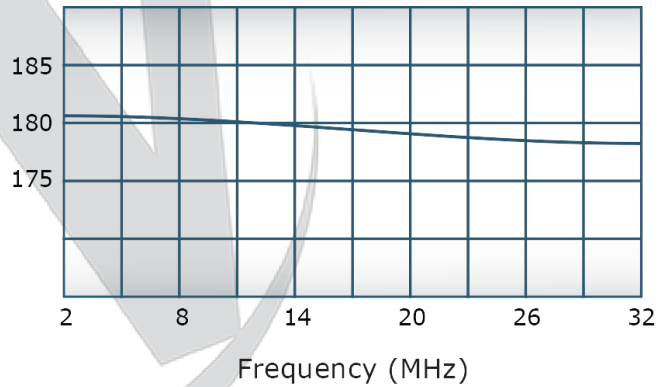
VSWR:



Isolation:



Phase Balance:



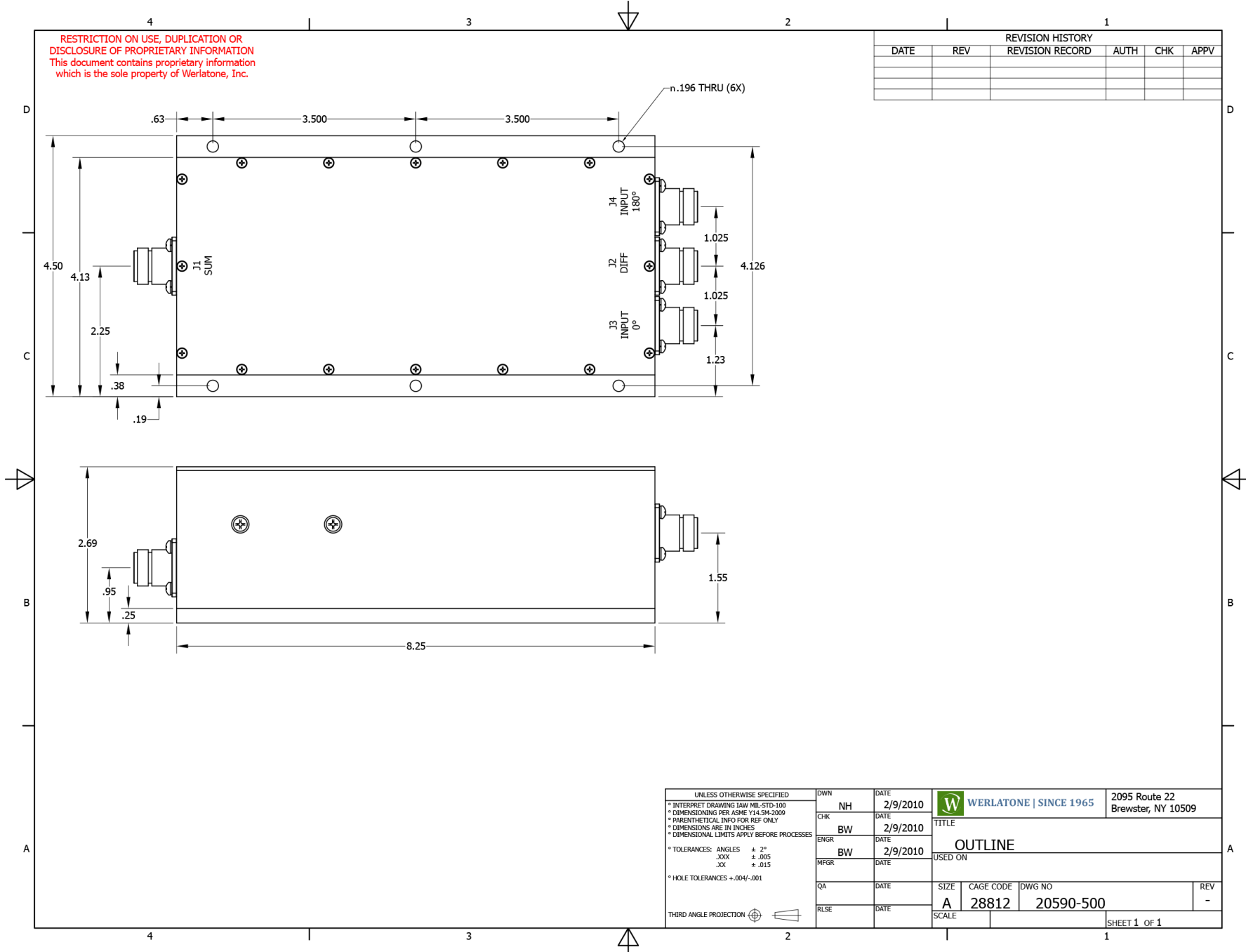
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

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.

REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



UNLESS OTHERWISE SPECIFIED
 * INTERPRET DRAWING IAW MIL-STD-100
 * DIMENSIONING PER ASME Y14.5M-2009
 * PARENTHEICAL INFO FOR REF ONLY
 * DIMENSIONS ARE IN INCHES
 * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 * TOLERANCES: ANGLES ± 2°
 .XXX ± .005
 .XX ± .015
 * HOLE TOLERANCES +.004/-.001
 THIRD ANGLE PROJECTION

DWN	DATE	2/9/2010
NH	DATE	2/9/2010
CHK	DATE	2/9/2010
BW	DATE	2/9/2010
ENGR	DATE	2/9/2010
BW	DATE	2/9/2010
MFR	DATE	
QA	DATE	
RLSE	DATE	

WERLATONE SINCE 1965 2095 Route 22 Brewster, NY 10509			
TITLE			
OUTLINE			
USED ON			
SIZE	CAGE CODE	DWG NO	REV
A	28812	20590-500	-
SCALE	SHEET 1 OF 1		

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