



## 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"

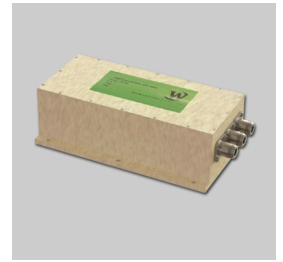
### Connector Configurations:

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.

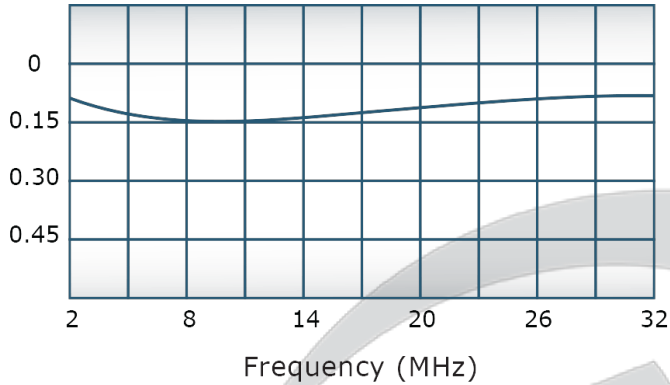
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

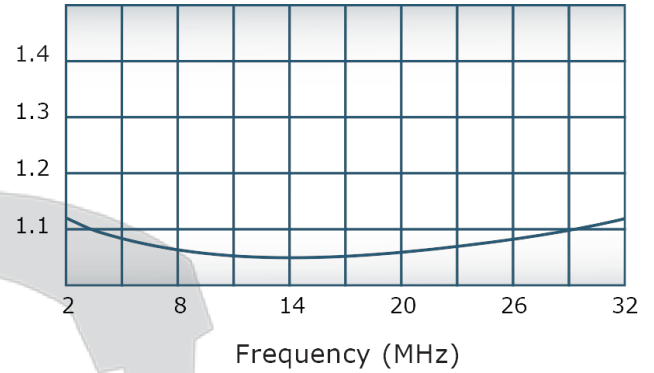


## Performance Data (Specifications subject to change without notice):

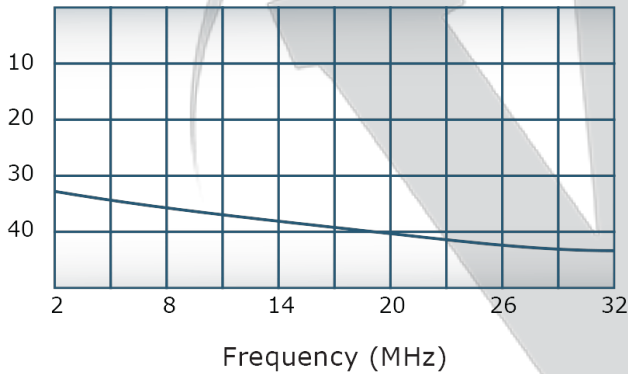
Insertion Loss:



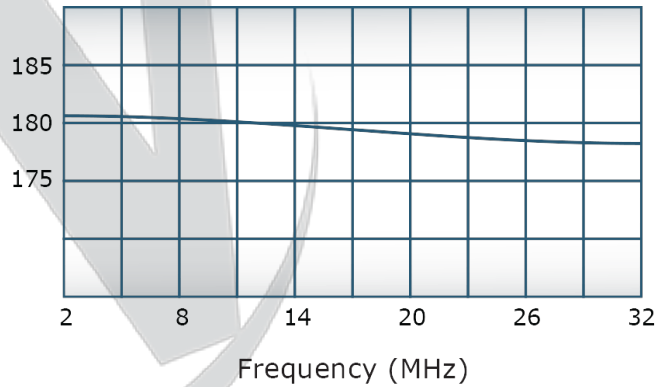
VSWR:



Isolation:

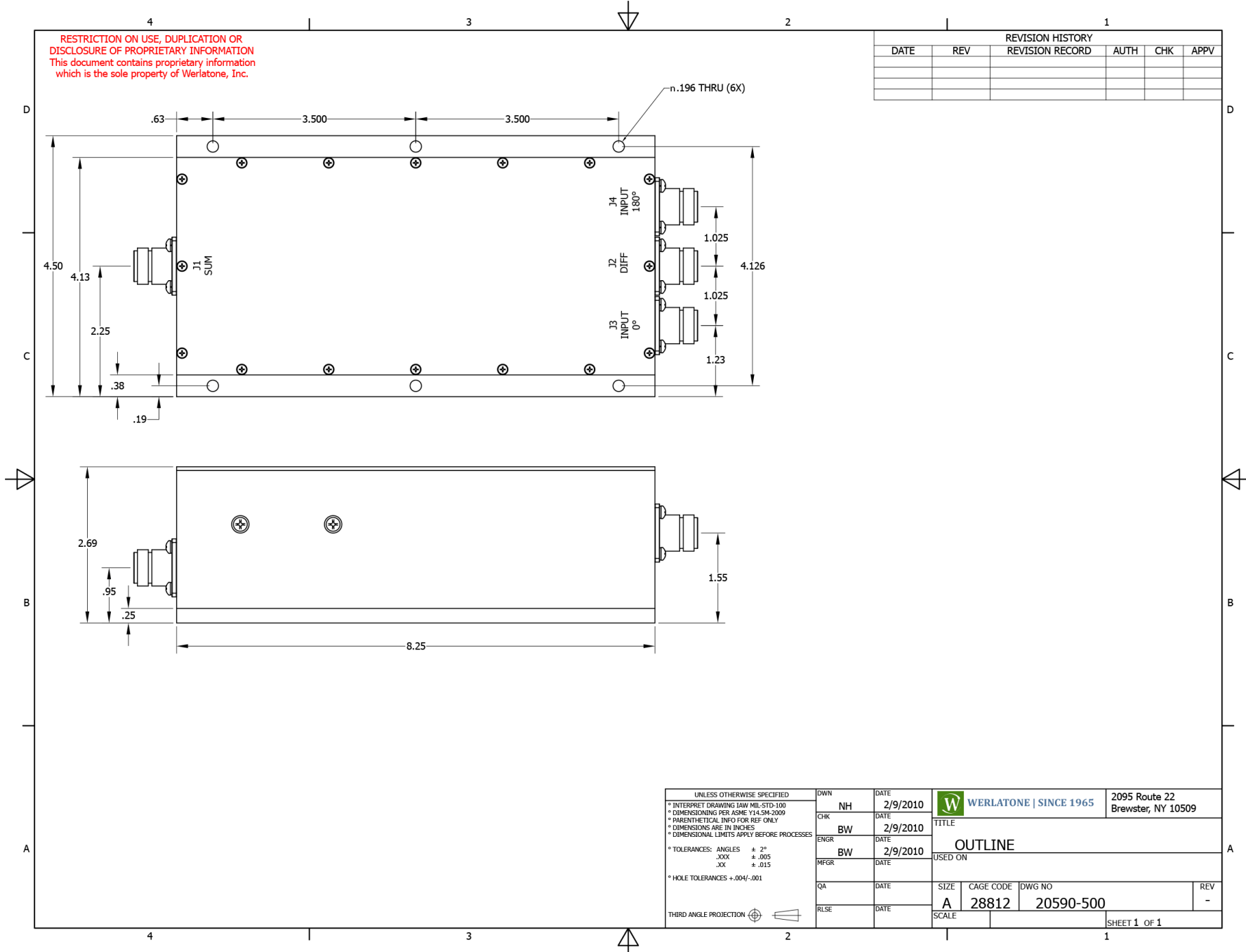


Phase Balance:



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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



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

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	

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

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