


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:

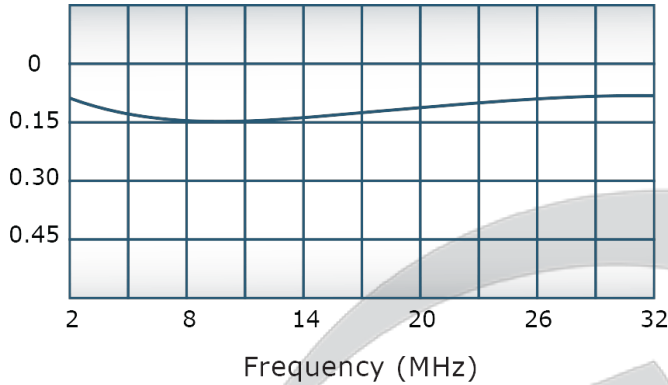
| Model | Sum Port (J1) | Inputs (J3,J4) | Diff. Port (J2) |
|----------|---------------|----------------|-----------------|
| H6286-10 | N Female | N Female | N Female |
| H6286-20 | 7/16 Female | N Female | N Female |
| H6286-41 | SC Female | N Female | N Female |

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.

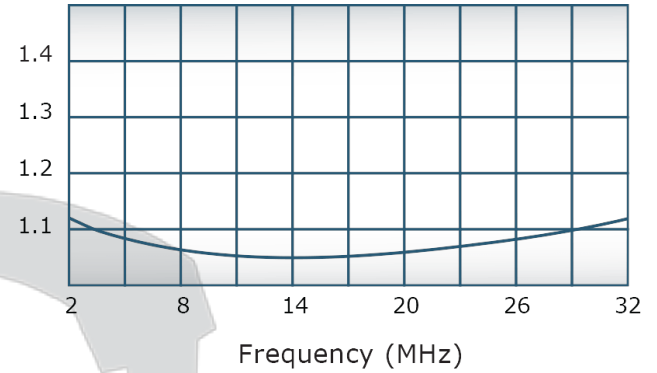


Performance Data (Specifications subject to change without notice):

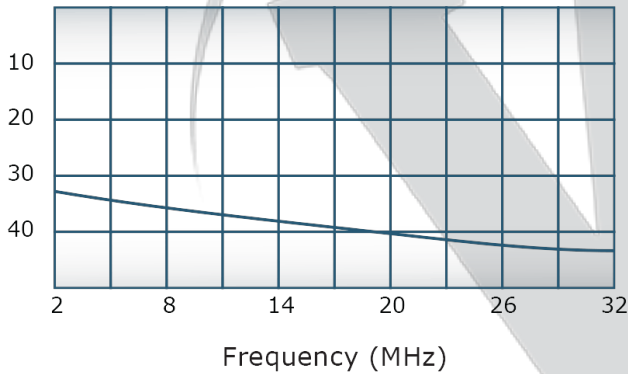
Insertion Loss:



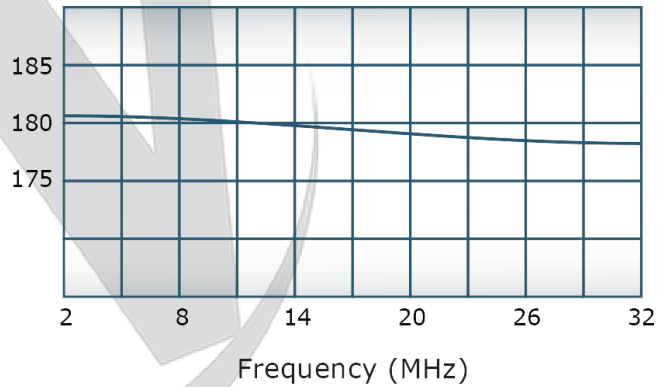
VSWR:



Isolation:



Phase Balance:



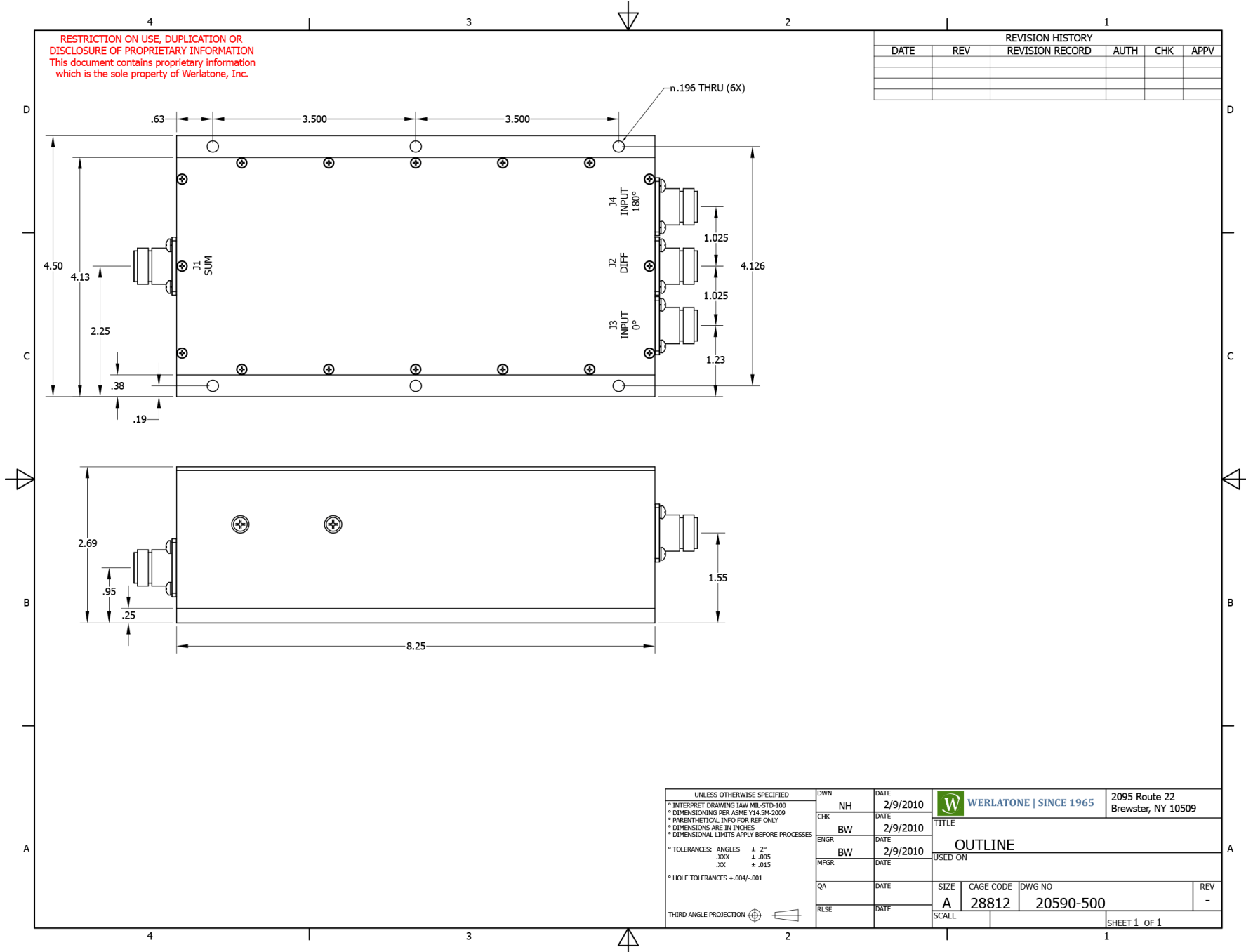
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Werlatone, Inc.

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| REVISION HISTORY | | | | | |
|------------------|-----|-----------------|------|-----|------|
| DATE | REV | REVISION RECORD | AUTH | CHK | APPV |
| | | | | | |
| | | | | | |
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UNLESS OTHERWISE SPECIFIED
 * 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
 * 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 | | |

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