

PRODUCT DATA SHEET

H10126

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: | 2000 - 6000 MHz |
| Power: | 100 W CW |
| Insertion Loss: | 0.8 dB Max. |
| VSWR: | 1.35:1 Max. |
| Phase Balance: | 180° ± 7° Max. |
| Amplitude Balance: | ± 0.4 dB Max. |
| Isolation: | 20 dB Min. |

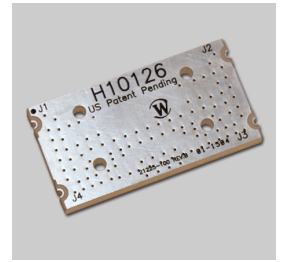
Mechanical Specifications:

| | |
|------------------------|---|
| Type: | Connectorized |
| Material: | Aluminum 6061-T6 |
| Surface Finish: | Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS Compliant) |
| Operating Temperature: | -55°C to +75°C |
| Storage Temperature: | -60°C to +85°C |
| Size: | 1.15 x 0.6 x 0.14" |

Port Configurations:

| Model | J1 | J2, J3 | J4 |
|--------|-----------------|-------------|----------|
| H10126 | Difference Port | Input Ports | Sum Port |

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.

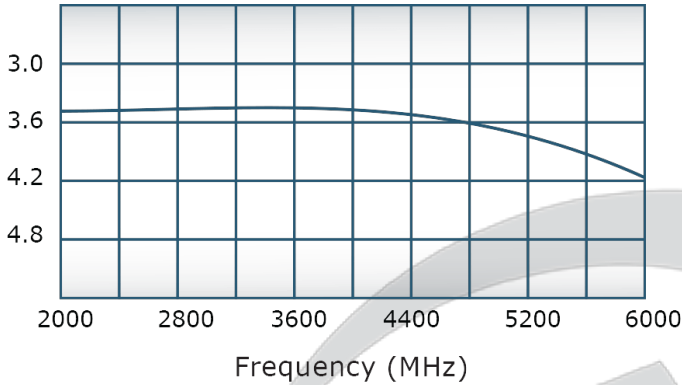


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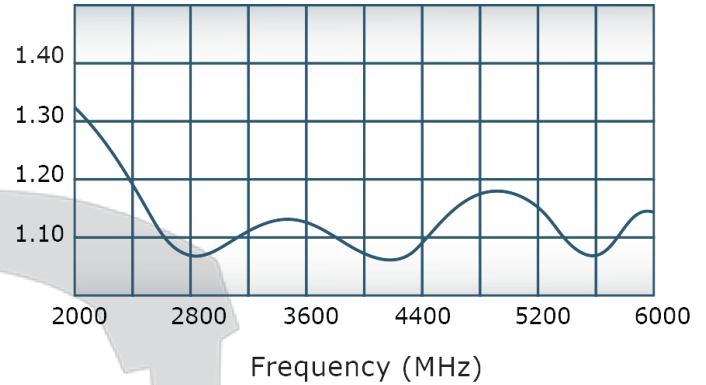
H10126

Performance Data (Specifications subject to change without notice):

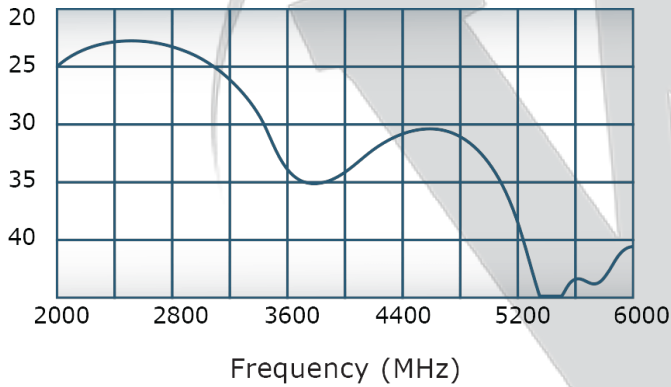
Coupling:



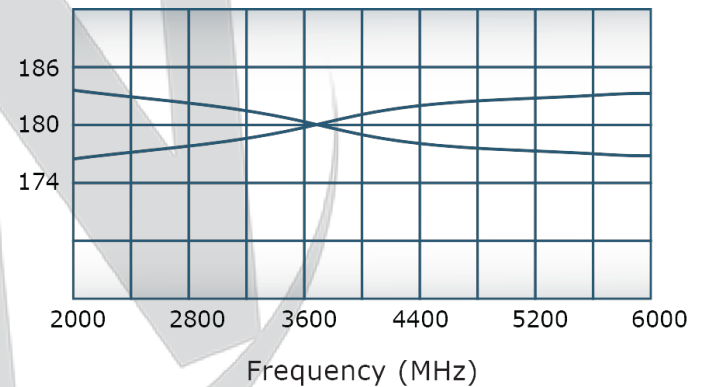
VSWR:



Isolation:



Phase Balance:

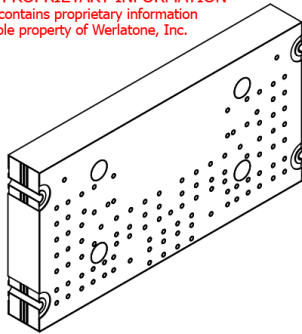


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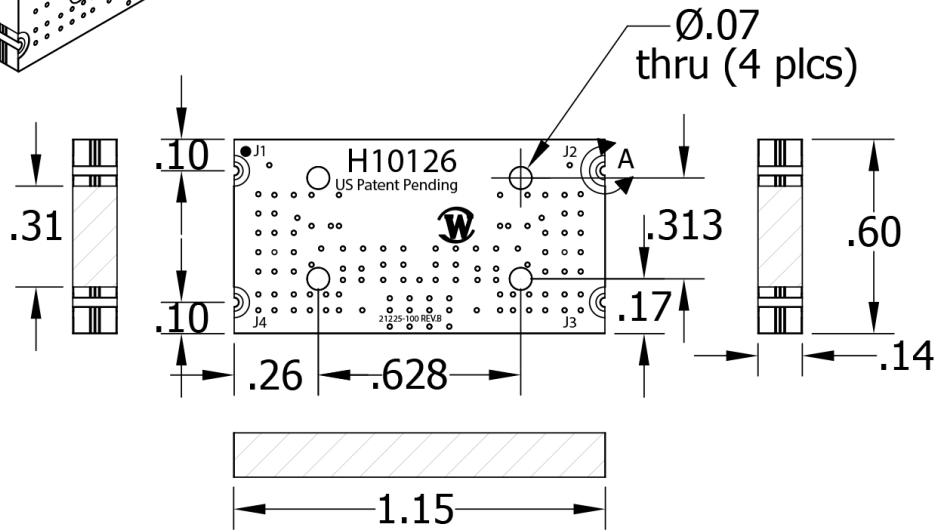
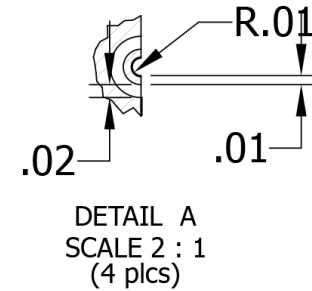
Werlatone, Inc.

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

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| REVISION HISTORY | | | |
|------------------|-----------------|------------|----------|
| REV | REVISION RECORD | DATE | APPROVED |
| - | Initial Rls | 10/22/2014 | BW |
| A | ECN 9029 | 2/9/2016 | BW |



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|-------------|---------|
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| | |
| 21225-100 | H10126 |
| NEXT ASSY | USED ON |
| APPLICATION | |

UNLESS OTHERWISE SPECIFIED
 • INTERPRET DRAWING LAW MIL-STD-100
 • DIMENSIONING PER ASME Y14.5M-2009
 • PARENTHESES INFO FOR REF ONLY
 • DIMENSIONS ARE IN INCHES
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 • TOLERANCES: ANGLES ± 2°
 3 PL ± .005
 2 PL ± .015

| | |
|------|----------|
| DWN | DATE |
| NH | 10/22/14 |
| CHK | DATE |
| BW | 10/22/14 |
| ENGR | DATE |
| NH | 10/22/14 |
| MFGR | DATE |
| QA | DATE |
| RLSE | DATE |

W WERLATONE | SINCE 1965

17 Jon Barrett Rd
 Patterson, NY 12563

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|----------------|-----------|--------------|-----|
| TITLE | | | |
| Outline | | | |
| SIZE | CAGE CODE | DWG NO | REV |
| A | 28812 | 21225-500 | A |
| SCALE | | SHEET 1 OF 1 | |
| 2:1 | | | |

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