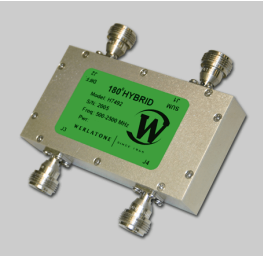
WERLATONE

Model H7492
180° Hybrids Connectorized



**PRODUCT DATA SHEET** **H7492**

**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: | 500 - 2500 MHz |
| Power: | 200 W CW |
| Insertion Loss: | 0.45 dB Max. |
| VSWR: | 1.35:1 Max. |
| Phase Balance: | 180° ± 8° 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 I Class 3 (Yellow Iridite) RoHS Compliant Available |
| Operating Temperature: | -55°C to +75°C |
| Storage Temperature: | -60°C to +85°C |
| Weight: | 12 oz. |
| Size: | 4.0 x 2.2 x 0.85'' |

**Connector Configurations:**

| **Model** | **Sum Port (J1)** | **Diff. Port (J2)** | **0°, 180° (J3, J4)** |
|---|---|---|---|
| H7492-10 | N Female | N Female | N Female |
| H7492-12 | N Female | SMA | SMA |
| H7492-102 | SMA | SMA | SMA |

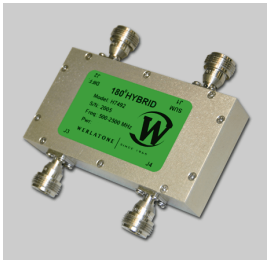
**Werlatone's** standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference 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

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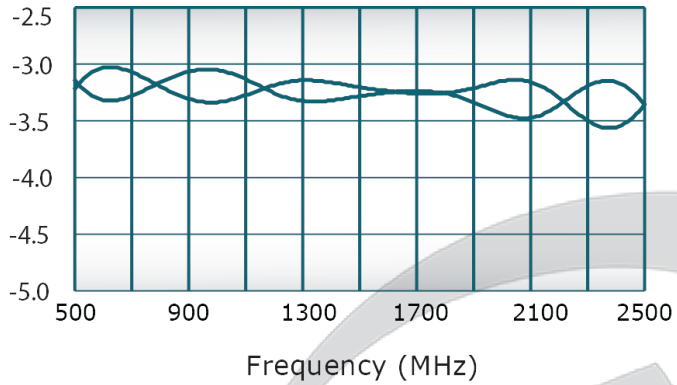
Model H7492
180° Hybrids Connectorized



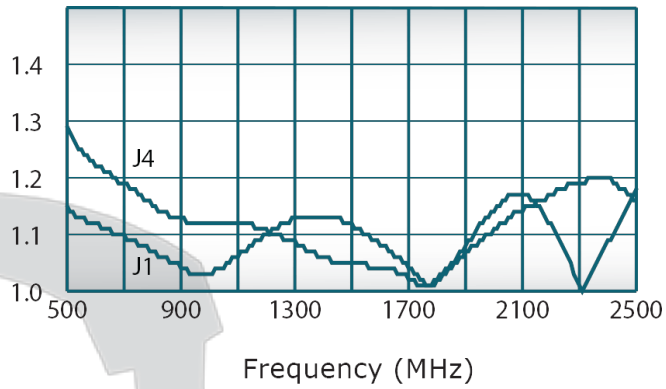
**PRODUCT DATA SHEET** **H7492**

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

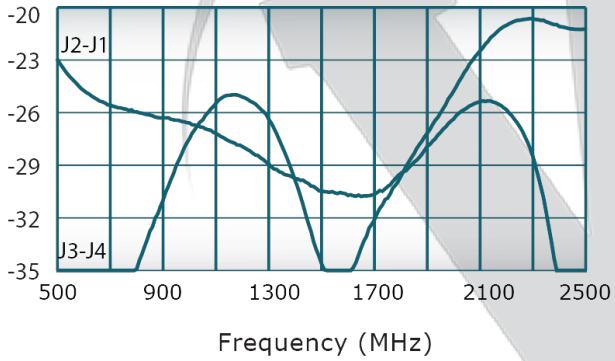
Coupling:



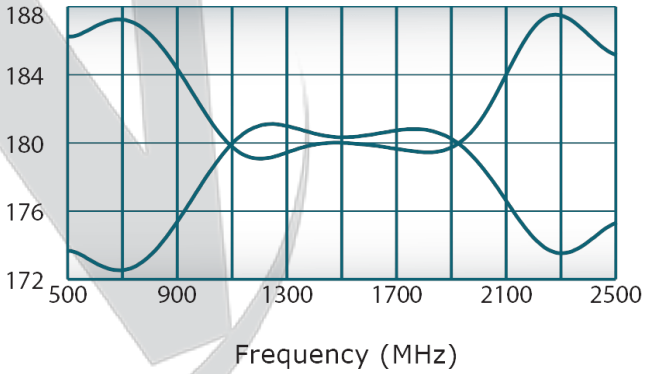

VSWR:




Isolation:




Phase Balance:

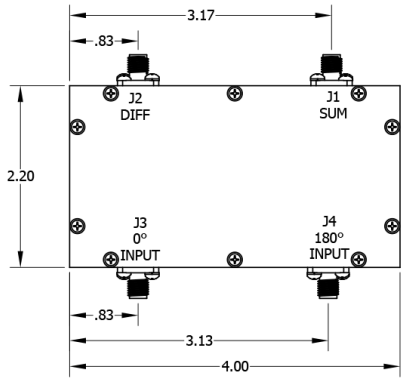



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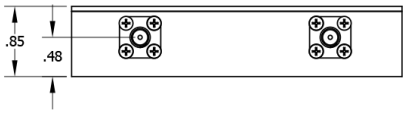
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| REVISION HISTORY | | | | | |
|---|---|---|---|---|---|
| DATE | REV | REVISION RECORD | AUTH | CHK | APPV |
| 01/26/2010 | A | ECN # 5061 | NH | BW | BW |

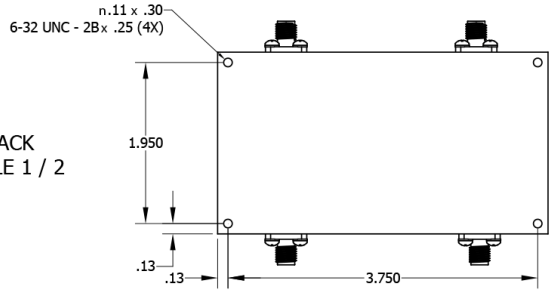
FRONT
SCALE 1 / 2




BOTTOM
SCALE 1 / 2




BACK
SCALE 1 / 2




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
THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DWN | NH | DATE 1/26/2010 |
| CHK | BW | DATE 1/26/2010 |
| ENGR | BW | DATE 1/26/2010 |
| MFGR | | 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 | 20149-501 | A |

SCALE
SHEET 1 OF 1

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