


PRODUCT DATA SHEET
QH7785
Our patented 3 dB 90° Hybrid Couplers provide:

- Superior component performance starting at 3:1 Bandwidth.
- Thicker center boards for high power and increased repeatability.
- Bonded structures which eliminate any air gaps between substrates.
- More sections per bandwidth for better coupling flatness.
- Electrically shorter and physically smaller RF components.

Features:

High Power Wide Bandwidths Small Size Excellent Amplitude Balance

Electrical Specifications:

| | |
|--------------------|------------------|
| Frequency: | 200 - 1000 MHz |
| Power: | 100 W CW |
| Insertion Loss | 0.5 dB Max. |
| VSWR: | 1.30:1 Max. |
| Phase Balance: | 90° ± 5° dB Max. |
| Amplitude Balance: | ± 0.6 dB Max. |
| Isolation: | 20 dB Min. |

Mechanical Specifications:

| | |
|------------------|---|
| Type: | Surface Mount |
| Plating Options: | QH7785-Sn: Immersion Tin (RoHS Compliant) |
| Size: | 2.5 x 0.75 x 0.15" |

Port Configurations:

| J1 | J2 | J3 | J4 |
|-------------|-------------|-------------|-------------|
| Sum | -3 dB, 0° | -3 dB, -90° | Isolated |
| -3 dB, 0° | Sum | Isolated | -3 dB, -90° |
| -3 dB, -90° | Isolated | Sum | -3 dB, 0° |
| Isolated | -3 dB, -90° | -3 dB, 0° | Sum |

Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.

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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

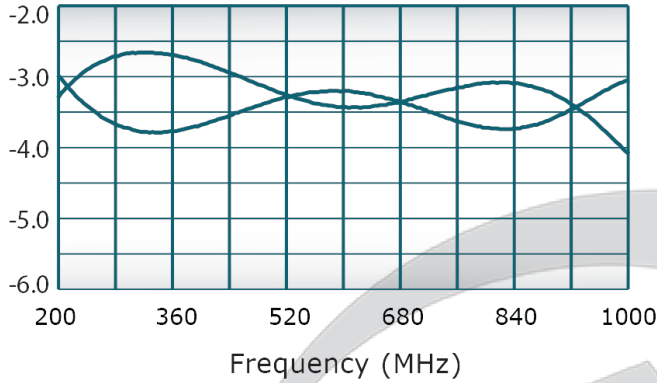


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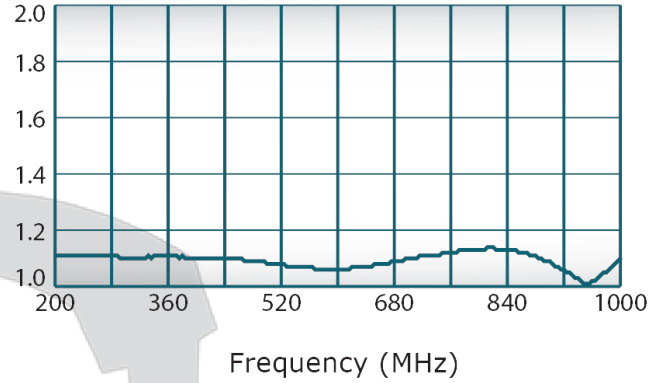
QH7785

Performance Data (Specifications subject to change without notice):

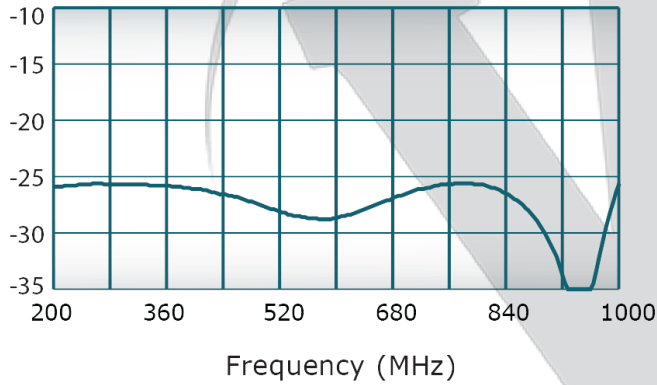
Coupling:



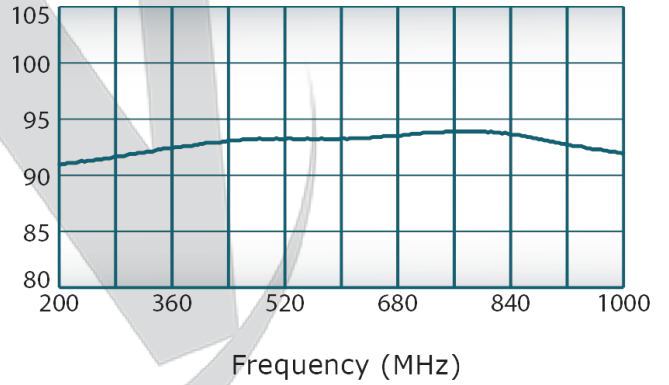
VSWR:



Isolation:



Phase Balance:



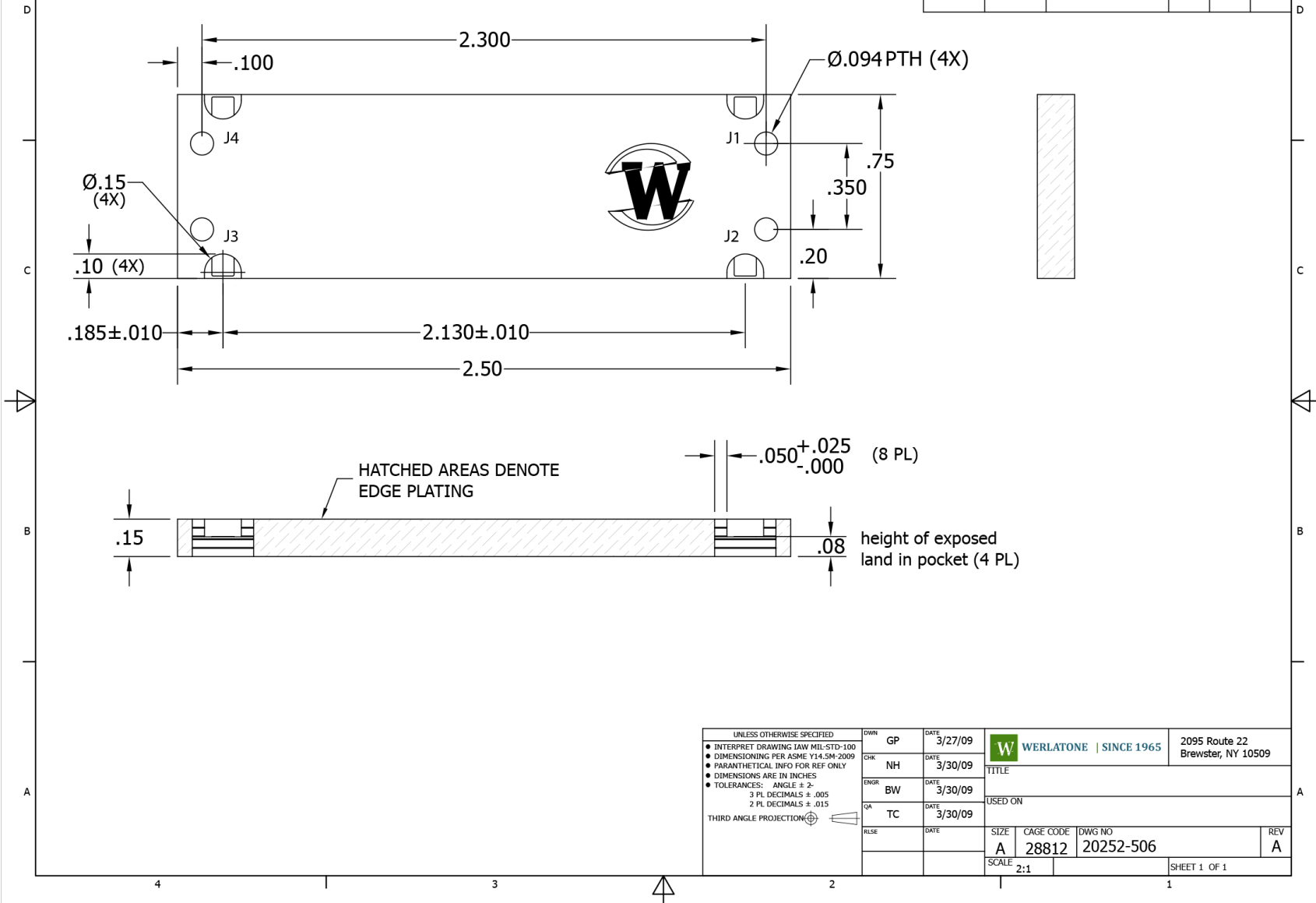
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| REVISION HISTORY | | | | | |
|------------------|-----|-----------------|------|-----|------|
| DATE | REV | REVISION RECORD | AUTH | CHK | APPV |
| 3/27/2009 | - | INITIAL RELEASE | GP | NH | BW |
| 7/2/2009 | A | ECN 4927 | GP | NH | BW |
| | | | | | |



| | | | | | | |
|---|------|-----|------|---------|-----------|--|
| UNLESS OTHERWISE SPECIFIED | | OWN | GP | DATE | 3/27/09 | WERLATONE SINCE 1965 2095 Route 22 Brewster, NY 10509 |
| <ul style="list-style-type: none"> ● INTERPRET DRAWING IAW MIL-STD-100 ● DIMENSIONING PER ASME Y14.5M-2009 ● PARANTHETICAL INFO FOR REF ONLY ● DIMENSIONS ARE IN INCHES ● TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015 | CHK | NH | DATE | 3/30/09 | | |
| THIRD ANGLE PROJECTION | ENGR | BW | DATE | 3/30/09 | TITLE | USED ON |
| | QA | TC | DATE | 3/30/09 | SIZE | A |
| | PLSE | | DATE | | CAGE CODE | 28812 |
| | | | | | DWG NO | 20252-506 |
| | | | | | REV | A |
| | | | | | SCALE | 2:1 |
| | | | | | | SHEET 1 OF 1 |

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