


PRODUCT DATA SHEET
QH7540
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 Connectorized Drop-In & Surface Mount

Electrical Specifications:

| | |
|--------------------|---------------|
| Frequency: | 225 - 520 MHz |
| Power: | 300 W CW |
| Insertion Loss: | 0.25 dB Max. |
| VSWR: | 1.30:1 Max. |
| Phase Balance: | 90° ± 5° Max. |
| Amplitude Balance: | ± 0.3 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: | 0.75 lbs. |
| Size: | 3.8 x 2.8 x 0.53" |

Connector Configurations:

| Model | Sum Port (J1) | 0°, 90° (J2,J3) | Diff. Port (J4) |
|------------|---------------|-----------------|-----------------|
| QH7540-102 | SMA | SMA | SMA |

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.

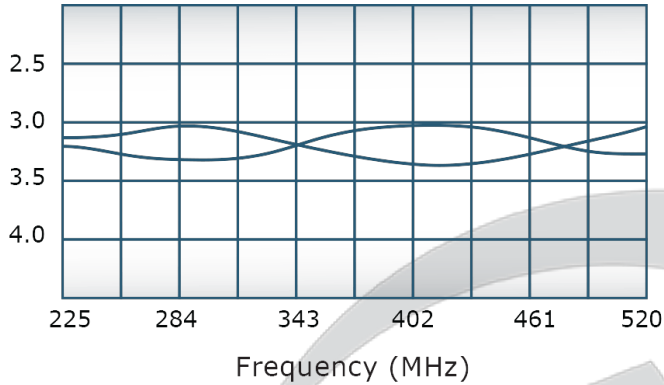
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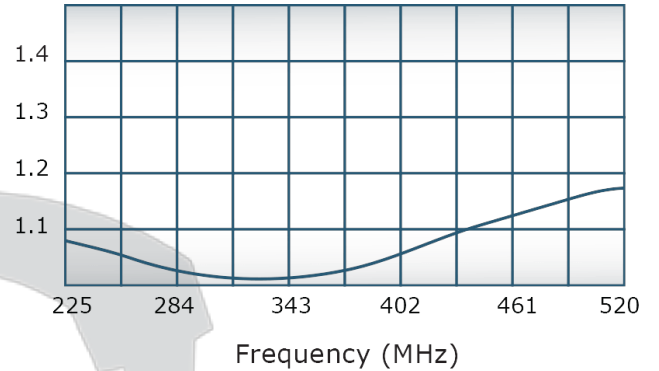


Performance Data (Specifications subject to change without notice):

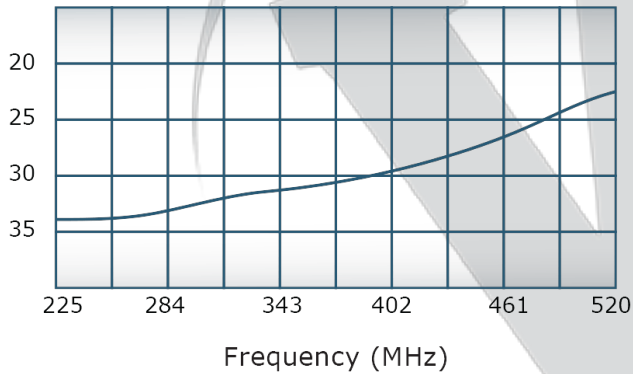
Coupling:



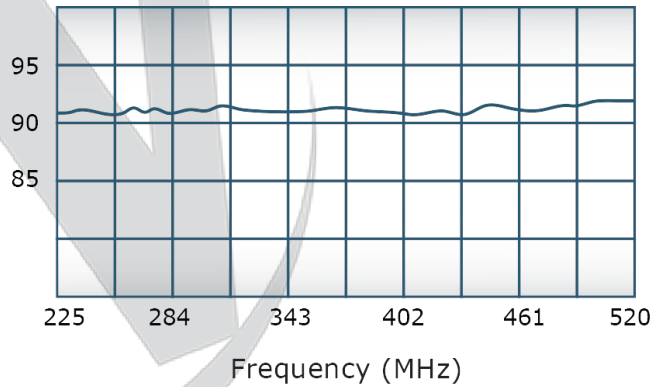
VSWR:



Isolation:



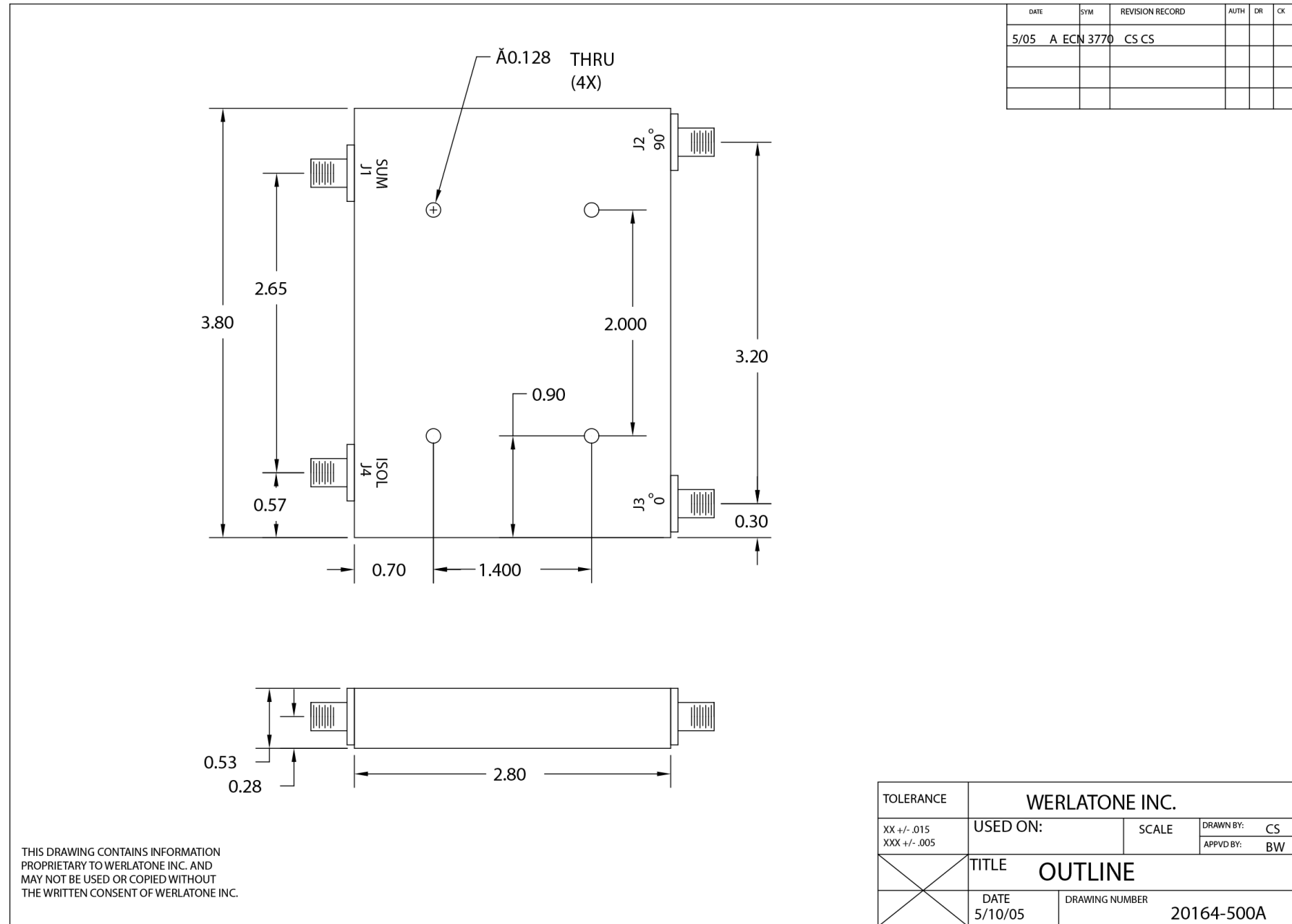
Phase Balance:



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|-----------------------------|----------------------|------------------------------|--------------|--------------|
| TOLERANCE | WERLATONE INC. | | | |
| XX +/- .015 XXX +/- .005 | USED ON: | SCALE | DRAWN BY: CS | APPVD BY: BW |
| | TITLE OUTLINE | | | |
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