
PRODUCT DATA SHEET
QH8589
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: | 126 - 130 MHz |
| Power: | 500 W CW |
| Insertion Loss: | 0.3 dB Max. |
| VSWR: | 1.20:1 Max. |
| Phase Balance: | 90° ± 5° Max. |
| Isolation: | 20 dB Min. |

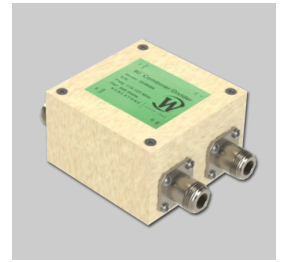
Mechanical Specifications:

| | |
|------------------------|---|
| 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 |
| Size: | 3.0 x 3.0 x 1.88" |

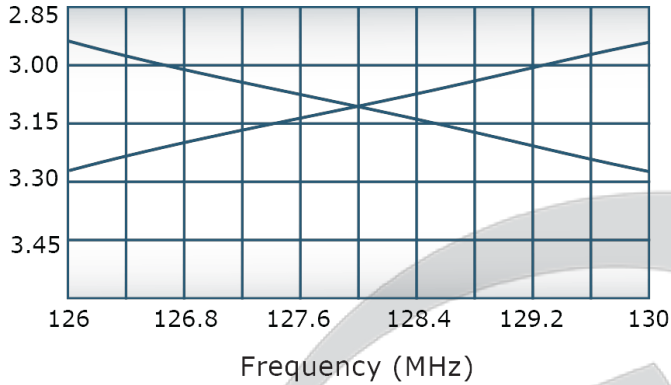
Connector Configurations:

| Model | Sum Port (J1) | 0°, 90° (J2,J3) | Isolated Port |
|-----------|---------------|-----------------|---------------|
| QH8589-10 | N Female | N Female | N Female |

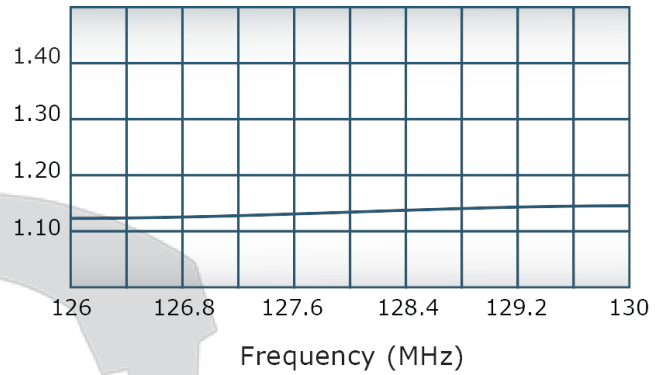
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the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


Performance Data (Specifications subject to change without notice):

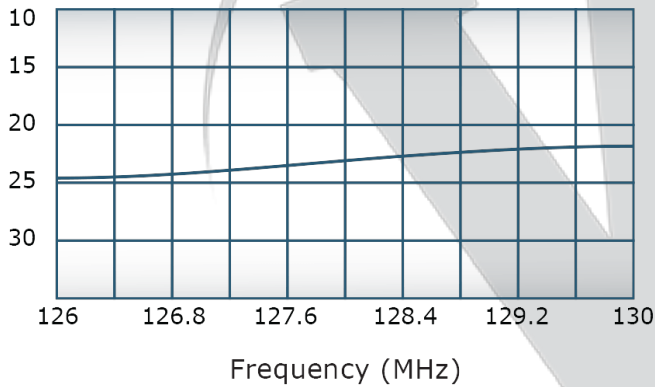
Insertion Loss:



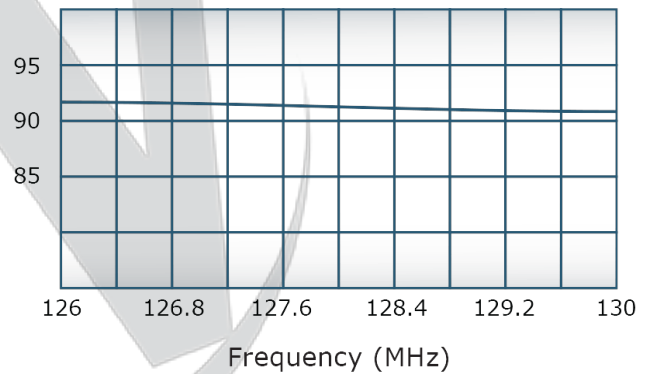
VSWR:

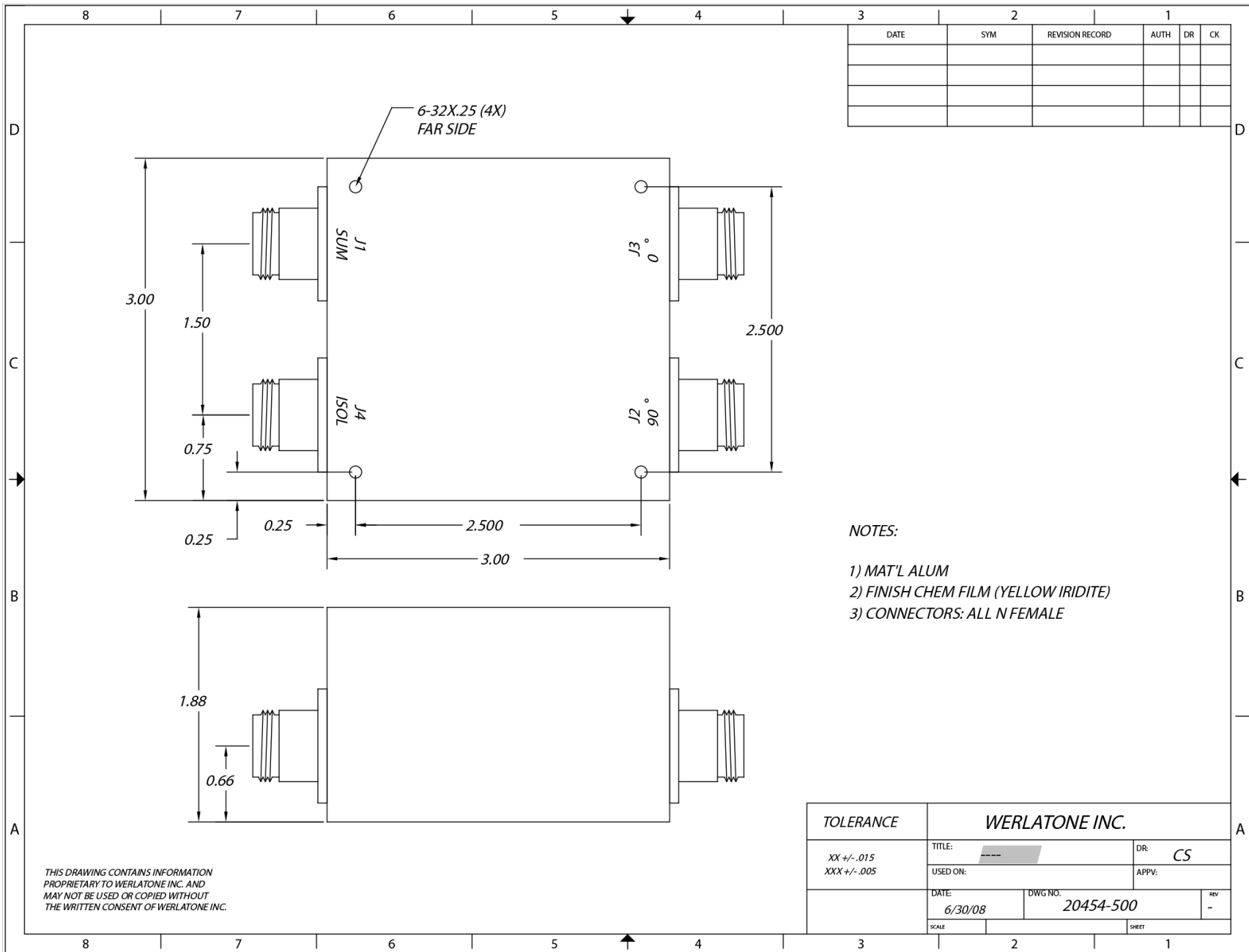


Isolation:



Phase Balance:





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