

October 2017

Multilayer Balun

For 4900–5950MHz

HHM1908A2

1.0x0.5mm [EIA 0402]*

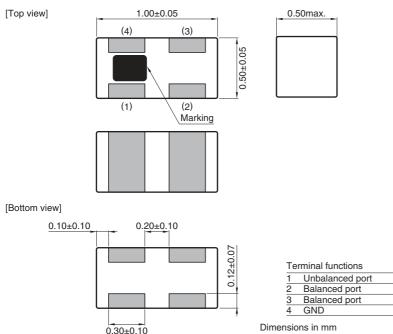
* Dimensions Code JIS[EIA]

Multilayer Balun

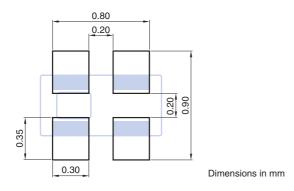
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SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



O RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

Conformity to RoHS Directive

公TDK

[•] All specifications are subject to change without notice.

[•] Before using these products, be sure to request the delivery specifications.

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ELECTRICAL CHARACTERISTICS

| Item | Frequency Range (MHz) | Min. | Тур. | Max. | | |
|---|--------------------------|------|-------|------|--|--|
| Unbalanced Impedance (Ω) 50 (Nominal) | | | | | | |
| Balanced Impedance (Ω) | 100 (Nominal) | | | | | |
| Unbalanced Port Return Loss (dB) | 4900 to 5950 | 10 | 29.0 | — | | |
| Phase Imbalance at Balanced Port (deg.) | 4900 to 5950 | 170 | 177.3 | 190 | | |
| Amplitude Imbalance at Balanced Port (dB) | 4900 to 5950 | -2.5 | -1.6 | 2.5 | | |
| Insertion Loss (dB) | 4900 to 5950 | — | 0.26 | 0.55 | | |

TEMPERATURE RANGE

| Operating temperature | Storage temperature | | |
|-----------------------|---------------------|--|--|
| (°C) | (°C) | | |
| -40 to +85 | -40 to +85 | | |

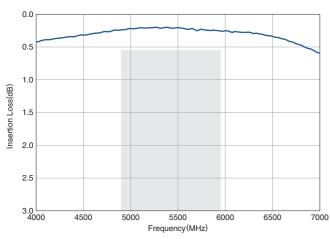
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RF Components

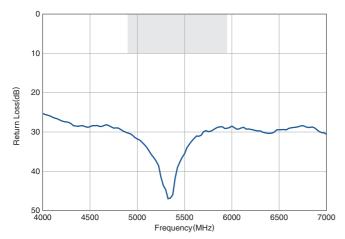
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FREQUENCY CHARACTERISTICS

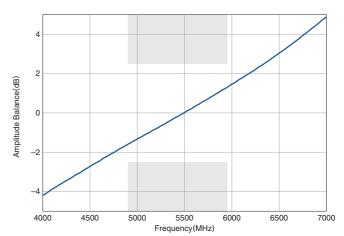


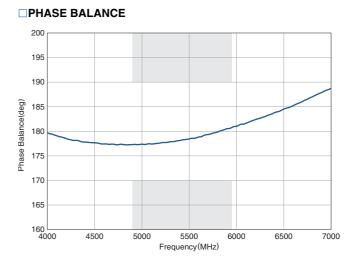


RETURN LOSS



AMPLITUDE BALANCE



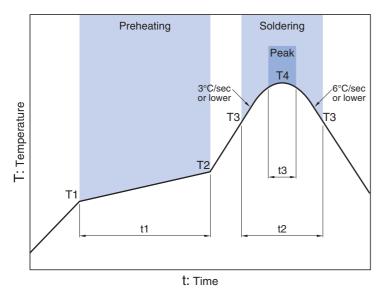


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RECOMMENDED REFLOW PROFILE



| Preheating | | Soldering | | | | |
|------------|-------|--------------|--------------------------|--------------|--------------|------------|
| | | | Critical zone (T3 to T4) | | Peak | |
| Temp. | | Time | Temp. | Time | Temp. | Time |
| T1 | T2 | t1 | Т3 | t2 | T4 | t3* |
| 150°C | 200°C | 60 to 120sec | 217°C | 60 to 120sec | 240 to 260°C | 30sec max. |

*t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

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REMINDERS FOR USING THESE PRODUCTS

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SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

⚠ REMINDERS

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/ equipment or providing backup circuits, etc., to ensure higher safety.

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