

June 2015

Multilayer Band Pass Filter

For 2400-2500MHz

DEA202450BT-2114F1

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]



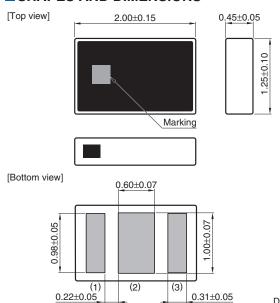
Multilayer Band Pass Filter

For 2400-2500MHz

Conformity to RoHS Directive

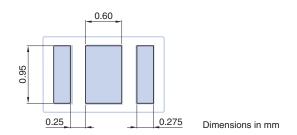
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SHAPES AND DIMENSIONS

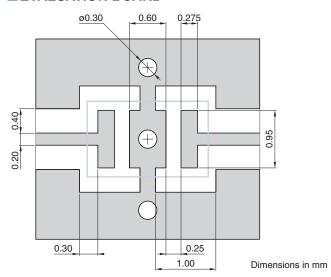


| 1 | rminal functions | |
|---|------------------|--|
| | | |
| 2 | GND | |
| 3 | OUT | |

■ RECOMMENDED LAND PATTERN



■EVALUATION BOARD



Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

- 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. |
|------------------------------|--------------------------|------|--------------|--------------------|
| Insertion Loss (dB) | 2400 to 2500 | _ | _ | 2.5 |
| insertion Loss (ub) | 2400 to 2500 | _ | _ | 2.8 (-40 to +85°C) |
| Return Loss (dB) | 2400 to 2500 | 10 | _ | _ |
| | 824 to 849 | 30 | _ | _ |
| | 880 to 915 | 30 | _ | _ |
| | 1545 to 1605 | 30 | | _ |
| | 1710 to 1785 | 34 | | _ |
| | 1850 to 1910 | 37 | _ | _ |
| Attanuation (dD) | 1920 to 1980 | 30 | _ | _ |
| Attenuation (dB) | 3168 to 3300 | 7 | _ | _ |
| | 3300 to 3800 | 11 | | _ |
| | 3800 to 4752 | 7 | | _ |
| | 4800 to 4967 | 33 | _ | _ |
| | 5150 to 6000 | 26 | _ | _ |
| | 7200 to 7450.5 | 22 | _ | _ |
| Characteristic Impedance (Ω) | | | 50 (Nominal) | |

[·] Ta: +25±5°C

TEMPERATURE RANGE

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

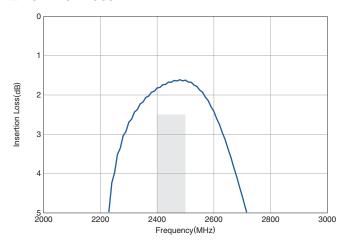
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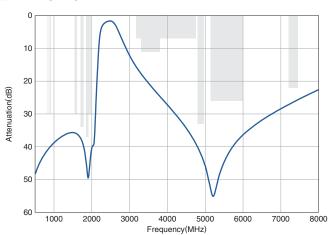
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■ FREQUENCY CHARACTERISTICS

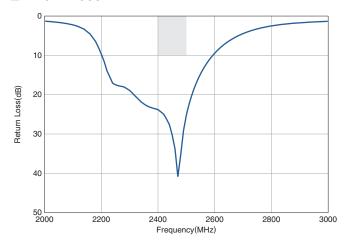
□INSERTION LOSS



ATTENUATION



□RETURN LOSS



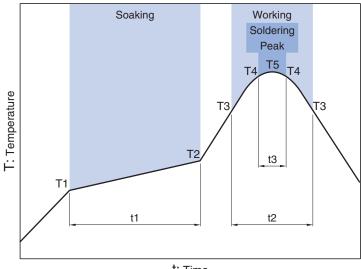
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■ RECOMMENDED REFLOW PROFILE



| | ım | |
|--|----|--|
| | | |
| | | |

| Soaking | | Working | | Soldering Peak | Soldering Peak | | |
|---------|-------|------------|-------|----------------|----------------|------------|------------|
| Temp. | | Time | Temp. | Time | Temp. | Time | Temp. |
| T1 | T2 | t1 | Т3 | t2 | T4 | t3 | T5 |
| 150°C | 180°C | 60 to 120s | 230°C | more than 30s | 247 to 253°C | within 10s | 260°C max. |

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REMINDERS FOR USING THESE PRODUCTS

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

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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