

June 2015

Multilayer Band Pass Filter (Balance Output Type) For 2400–2500MHz

DEA252450BT-7022B1

2.5x2.0mm [EIA 1008]* * Dimensions Code JIS[EIA]



The products in this catalog will be or have been stopped production

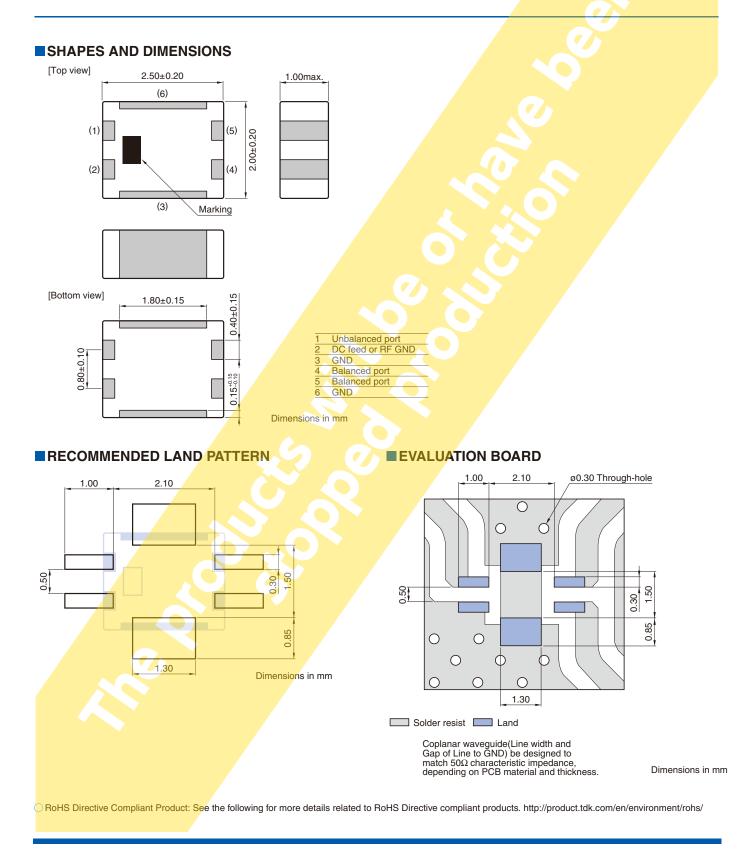
| Discontinue Issue Date | May. 11, 2023 | | |
|--------------------------|---------------|--|--|
| Last Purchase Order Date | Mar. 31, 2024 | | |
| Last Shipment Date | Mar. 31, 2025 | | |

Please refer to our Web site about replacement information.

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Conformity to RoHS Directive

DEA252450BT-7022B1



• 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 Port Characteristic Impedance (Ω) | | | 50 (Nominal) | |
| Balanced Port Characteristic Impedance (Ω) | | | 100 (Nominal) | |
| Insertion Loss (dB) | 2400 to 2500 | - | 2.7 | 3.0 |
| | 2400 to 2500 | _ | 3.0 | 3.3 (–40 to +85°C) |
| Ripple (dB) | 2400 to 2500 | _ | 0.3 | 1 |
| | 880 to 960 | 48 | 52 | — |
| | 1710 to 1880 | 45 | 50 | — |
| Attenuation (dB) | 1880 to 1980 | 40 | 53 | — |
| Alternation (db) | 2110 to 2170 | 25 | 32 | — |
| | 4800 to 5000 | 30 | 39 | — |
| | 7200 to 7500 | 20 | 25 | — |
| Return Loss at Unbalanced Port (dB) | 2400 to 2500 | 9.5 | | — |
| Phase Balance (deg.) | 2400 to 2500 | 172 | 184 | 188 |
| Filase Dalalice (uey.) | 2400 to 2500 | 170 (-40 to +85°C) | - | 190 (-40 to +85°C) |
| Amplitude Balance (dB) | 2400 to 2500 | — | -0.4 | 1 |

• Ta: +25±5°C

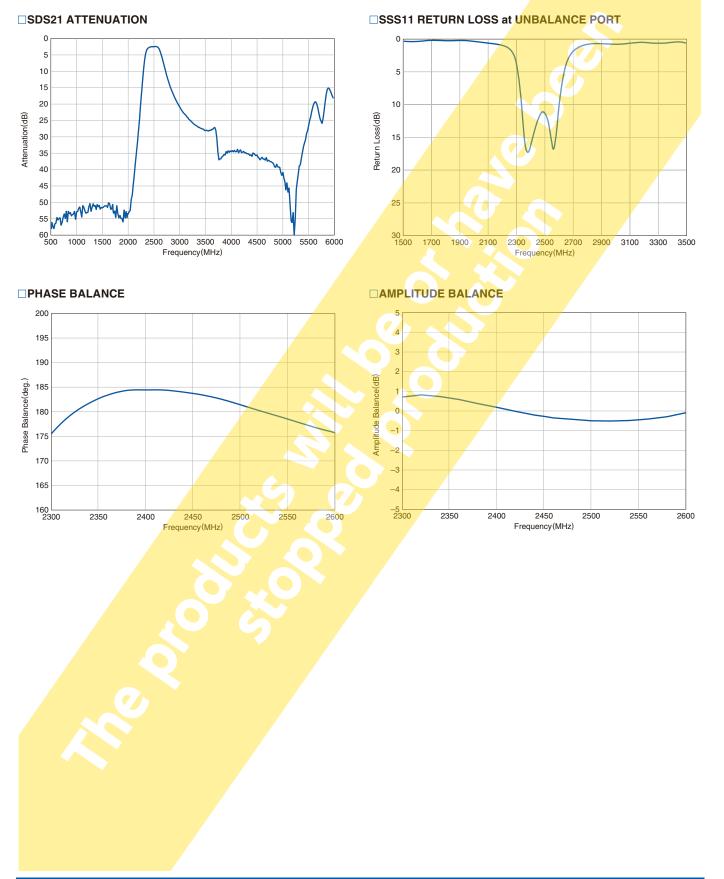
TEMPERATURE RANGE

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

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FREQUENCY CHARACTERISTICS

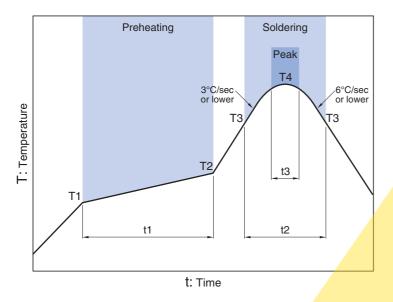


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RF Components

RECOMMENDED REFLOW PROFILE



| Preheating | | | Soldering Critical zor | ne (T3 to T4) | Peak | |
|------------|-------|--------------|---------------------------|---------------|------------------|------------|
| Temp. | | Time | Temp. | Time | Temp. | Time |
| T1 | T2 | t1 | ТЗ | t2 | T 4 | t3* |
| 150°C | 200°C | 60 to 120sec | 217°C | 60 to 120 | sec 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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⊗TDK

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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