## Multilayer Band Pass Filter (Balance Output Type)

For $2400-2500 \mathrm{MHz}$

## DEA202450BT-7210A1

## 2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]


## DEA202450BT-7210A1

## ■SHAPES AND DIMENSIONS



■RECOMMENDED LAND PATTERN

0.300 .35

Dimensions in mm

■EVALUATION BOARD


Line width is designed to match $50 \Omega$ characteristic impedance depending on PCB material and thickness.

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


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■ELECTRICAL CHARACTERISTICS

| Item | Frequency Range <br> $(\mathbf{M H z )}$ | Min. | Typ. | Max. |
| :--- | :--- | :--- | :--- | :--- |
| Unbalanced Port Characteristic Impedance $(\Omega)$ |  |  | Matched to TI CC253x, CC254x, CC85xx series |  |
| Balanced Port Characteristic Impedance $(\Omega)$ |  | - | 0.95 | 1.5 |
| Insertion Loss (dB) | 2400 to 2500 | 15 | - |  |
| Attenuation (dB) | 4800 to 5000 | 20 | - |  |
| Return Loss at Unbalanced Port (dB) | 7200 to 7500 | 10 | 38 | - |
| Phase Balance (deg.) | 2400 to 2500 | 165 | 22 | 195 |
| Amplitude Balance (dB) | 2400 to 2500 | -2 | 183 | 2 |

[^0]
## TEMPERATURE RANGE

| Operating temperature <br> $\left({ }^{\circ} \mathbf{C}\right)$ | Storage temperature <br> $\left({ }^{\circ} \mathbf{C}\right)$ |
| :---: | :---: |
| -40 to +85 | -40 to +85 |

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## IFREQUENCY CHARACTERISTICS

## $\square$ SDS21 INSERTION LOSS


$\square$ SSS11 RETURN LOSS at UNBALANCE PORT

$\square$ PHASE BALANCE


## $\square$ SDS21 ATTENUATION


$\square$ SDD22 RETURN LOSS at BALANCE PORT

$\square$ AMPLITUDE BALANCE


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## RECOMMENDED REFLOW PROFILE


t: Time

| Preheating |  |  | Soldering |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Critical zone (T3 to T4) |  | Peak |  |
| Temp. |  | Time | Temp. | Time | Temp. | Time |
| T1 | T2 | t1 | T3 | t2 | T4 | t3* |
| $150^{\circ} \mathrm{C}$ | $200^{\circ} \mathrm{C}$ | 60 to 120sec | $217^{\circ} \mathrm{C}$ | 60 to 120sec | 240 to $260^{\circ} \mathrm{C}$ | 30sec max. |

*t3 : Time within $5^{\circ} \mathrm{C}$ 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
(8) Public information-processing 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
(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.

[^1]
[^0]:    - Ta: $+25 \pm 5^{\circ} \mathrm{C}$

[^1]:    - All specifications are subject to change without notice.
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