



June 2015

# Multilayer Band Pass Filter

For 2400-2500MHz

# DEA252450BT-2024C5

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**2.5x2.0mm [EIA 1008]\***

\* Dimensions Code JIS[EIA]

# Multilayer Band Pass Filter

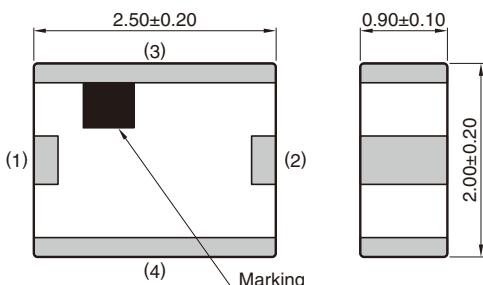
## For 2400-2500MHz

Conformity to RoHS Directive

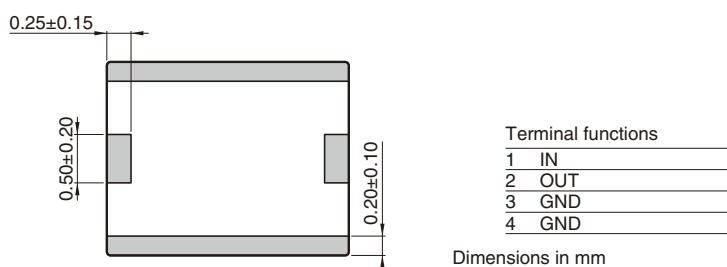
# DEA252450BT-2024C5

## ■ SHAPES AND DIMENSIONS

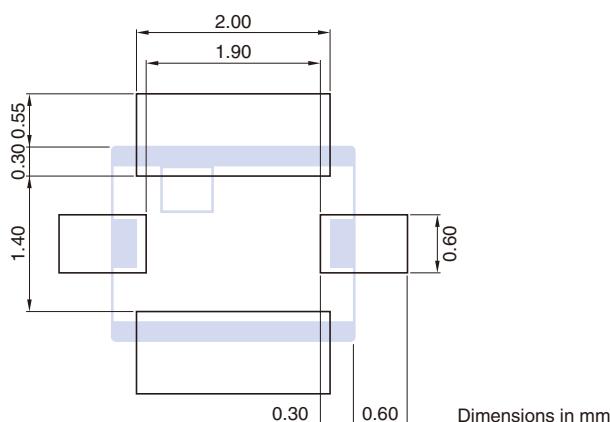
[Top view]



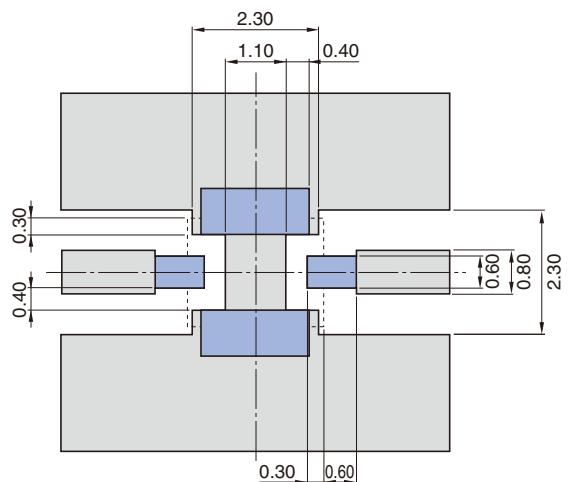
[Bottom view]



## ■ RECOMMENDED LAND PATTERN



## ■ EVALUATION BOARD



Line width 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.

## DEA252450BT-2024C5

## ■ ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2500	—	—	2.1
Return Loss (dB)	2400 to 2500	10	—	—
	880 to 915	45	—	—
	1710 to 1990	48	—	—
Attenuation (dB)	2110 to 2170	20	—	—
	3000	14	—	—
	4800 to 5000	30	—	—
Characteristic Impedance ( $\Omega$ )			50 (Nominal)	

• Ta: +25±5°C

## ■ TEMPERATURE RANGE

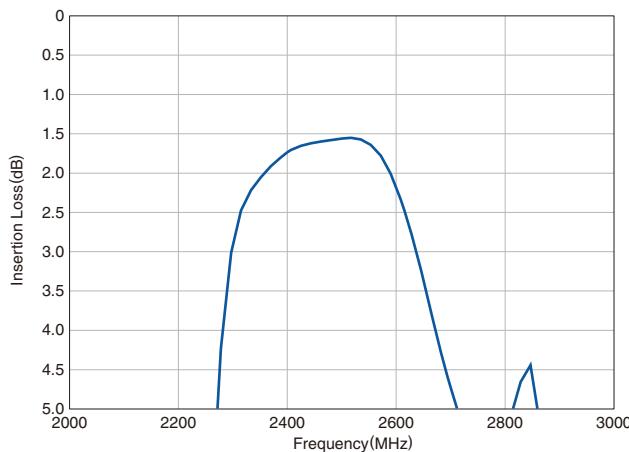
Operating temperature (°C)	Storage temperature (°C)
-40 to +85	-40 to +85

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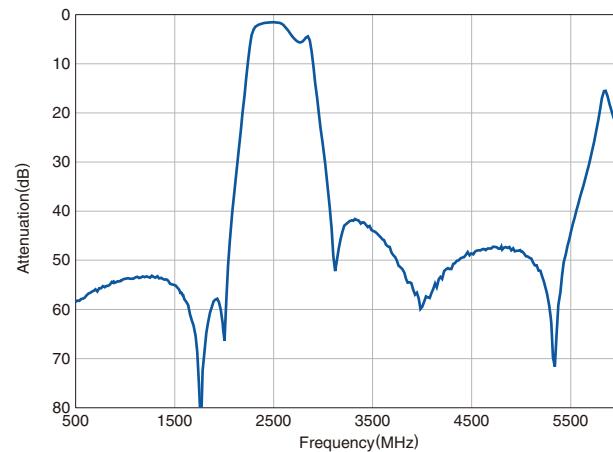
## DEA252450BT-2024C5

## ■ FREQUENCY CHARACTERISTICS

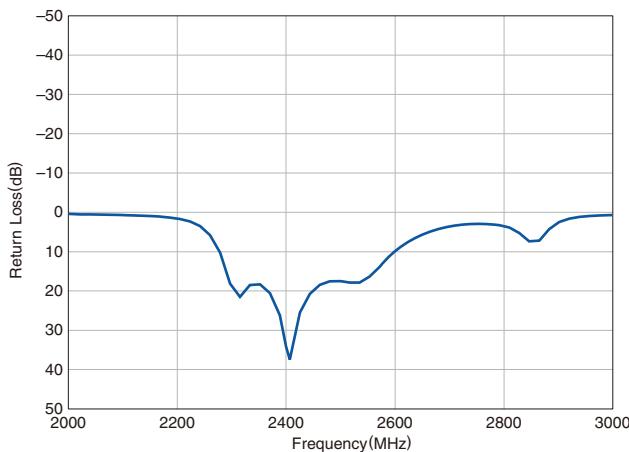
## □ INSERTION LOSS



## □ ATTENUATION

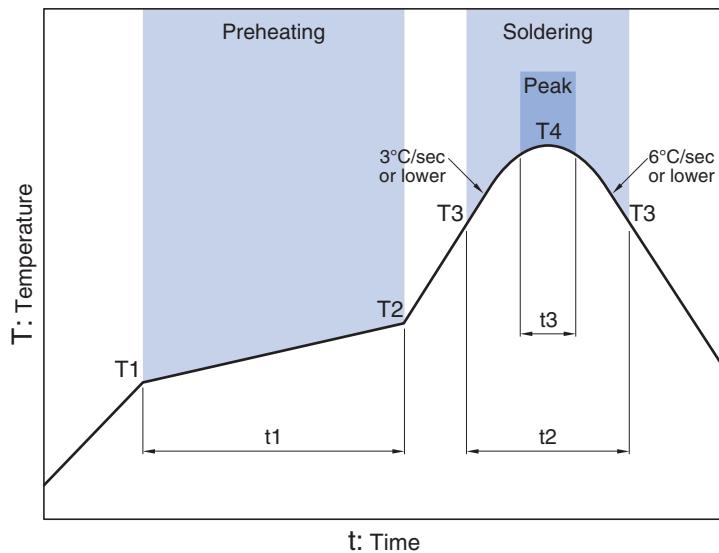


## □ RETURN LOSS



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## ■ RECOMMENDED REFLOW PROFILE



Preheating			Soldering		Peak	
			Critical zone (T3 to T4)			
Temp.	Time		Temp.	Time	Temp.	Time
$T_1$ 150°C	$T_2$ 200°C	$t_1$ 60 to 120sec	$T_3$ 217°C	$t_2$ 60 to 120sec	$T_4$ 240 to 260°C	$t_3^*$ 30sec max.

\*  $t_3$  : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

## 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	(8) Public information-processing equipment
(2) Transportation equipment (cars, electric trains, ships, etc.)	(9) Military equipment
(3) Medical equipment	(10) Electric heating apparatus, burning equipment
(4) Power-generation control equipment	(11) Disaster prevention/crime prevention equipment
(5) Atomic energy-related equipment	(12) Safety equipment
(6) Seabed equipment	(13) Other applications that are not considered general-purpose applications
(7) Transportation control equipment	

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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