



# Multilayer Band Pass Filter

For 2412-2484MHz

# DEA202450BT-1294C1-H

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

\* Dimensions Code JIS[EIA]

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# Multilayer Band Pass Filter

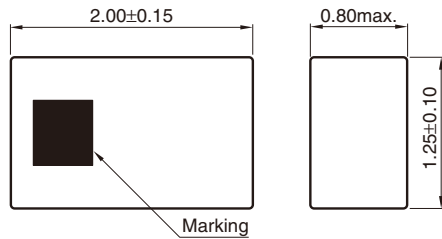
Conformity to RoHS Directive

For 2412-2484MHz

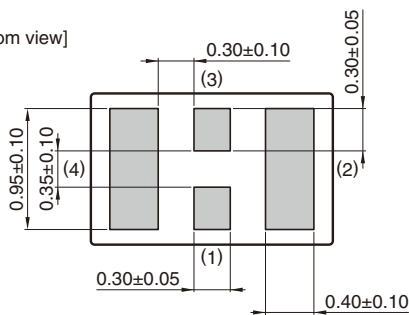
## DEA202450BT-1294C1-H

### SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

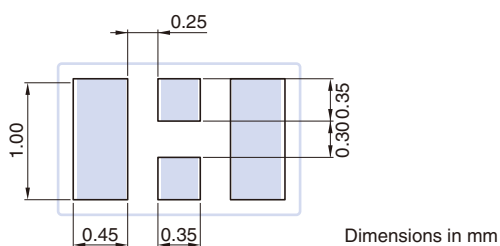


Terminal functions

1	In
2	GND
3	Out
4	GND

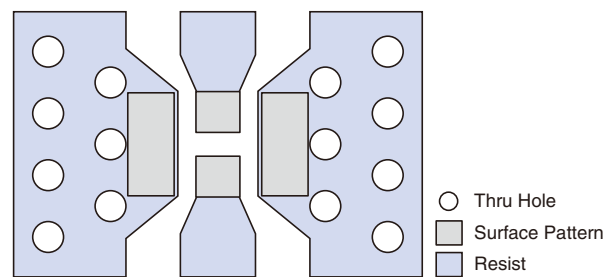
Dimensions in mm

### RECOMMENDED LAND PATTERN



Dimensions in mm

### EVALUATION BOARD



Material & Layer	Thickness
Top resist	—
Copper surface pattern	0.035mm
FR4	0.10mm
Inner GND	0.018mm
FR4	0.30mm
Copper bottom GND	0.035mm

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.

## DEA202450BT-1294C1-H

### ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2412 to 2484	—	1.02	1.35
Return Loss (dB)	2412 to 2484	10	22	—
Attenuation (dB)	804 to 828	30	42	—
	1608 to 1656	20	23	—
	3216 to 3312	30	49	—
	4020 to 4140	40	52	—
	4824 to 4968	20	30	—
	5628 to 5796	20	27	—
	6432 to 6624	20	42	—
	7200 to 7500	35	44	—
	7500 to 10000	20	30	—
Characteristic Impedance ( $\Omega$ )			50 (Nominal)	

· Ta: +25±5°C

### TEMPERATURE RANGE

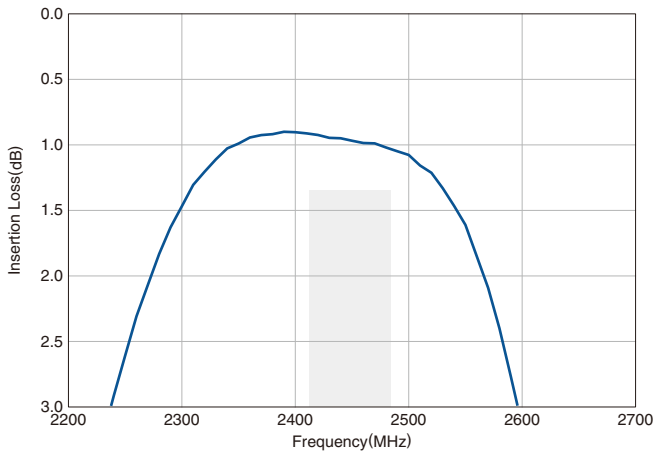
Operating temperature (°C)	Storage temperature (°C)
-40 to +85	-40 to +85

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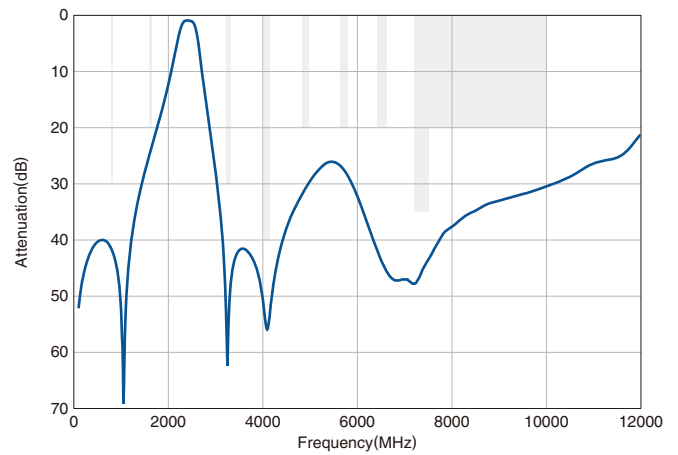
# DEA202450BT-1294C1-H

## FREQUENCY CHARACTERISTICS

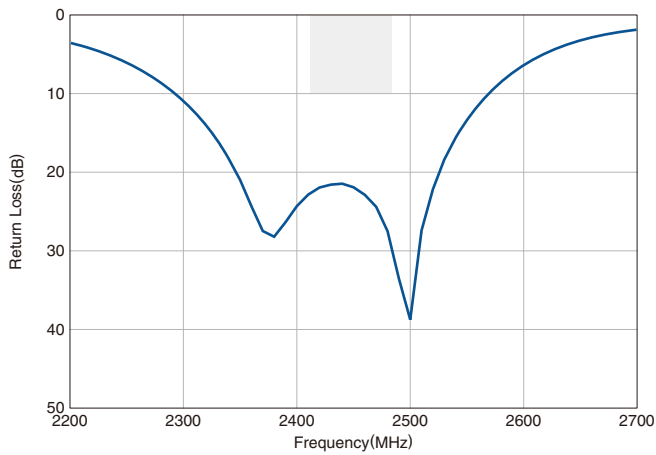
### INSERTION LOSS



### ATTENUATION



### RETURN LOSS

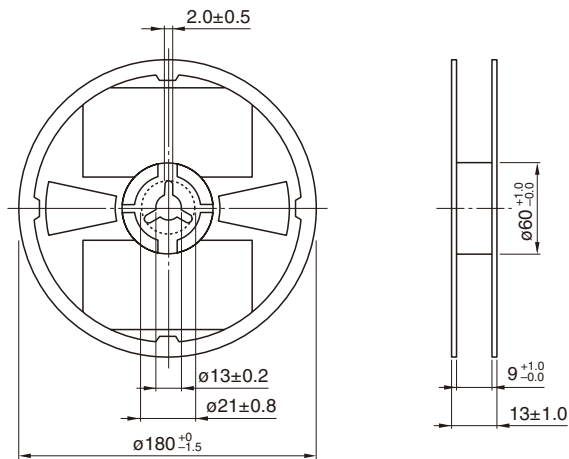


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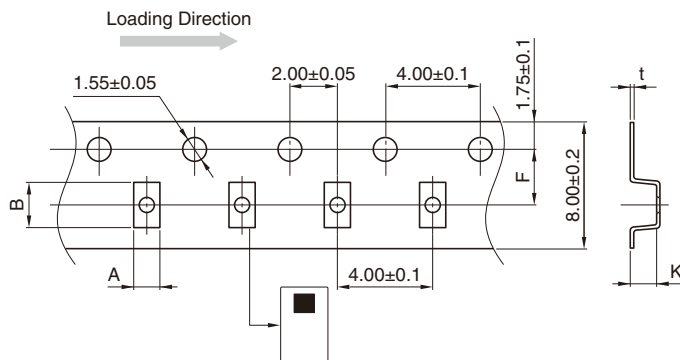
### PACKAGING STYLE

#### REEL DIMENSIONS



Dimensions in mm

#### TAPE DIMENSIONS



A	B	F	t	K
1.45±0.1	2.25±0.1	3.50±0.05	0.25±0.05	1.00±0.05

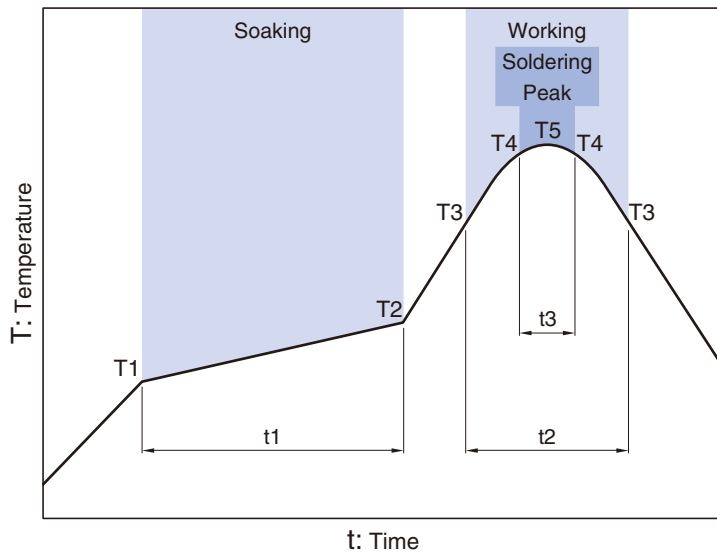
### PACKAGE QUANTITY

Standard package quantity  
(pieces/reel)

2000

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## DEA202450BT-1294C1-H

**RECOMMENDED REFLOW PROFILE**


Soaking			Working		Soldering Peak		
Temp.	T2	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	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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## 使用注意事项

在使用本产品前，请务必随附采购规格书。

## 安全注意事项

使用本产品时，请注意安全事项。

### ⚠ 注意

本产品目录中记载的产品是指在通用标准用途意义上使用于一般电子设备（AV 设备，通信设备，家电产品，娱乐设备，计算机设备，个人设备，办公设备，计测设备，工业机器人），并且该一般电子设备要在通常的操作和使用方法下使用。

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- |                         |                    |
|-------------------------|--------------------|
| (1) 航天航空设备              | (8) 公共信息处理设备       |
| (2) 交通运输设备（汽车，电动火车，船舶等） | (9) 军事设备           |
| (3) 医疗设备                | (10) 电加热设备、燃烧设备    |
| (4) 发电控制设备              | (11) 防灾 / 预防犯罪设备   |
| (5) 原子能源相关设备            | (12) 安全设备          |
| (6) 海底设备                | (13) 其他不被视为常规用途的用途 |
| (7) 交通控制设备              |                    |

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