October 2017

Multilayer Band Pass Filter

For 4920–5950MHz

DEA205425BT-2190E1

2.0x1.25mm [EIA 0805]*

*** Dimensions Code JIS[EIA]**

⚠ Caution

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

Discontinue Issue Date	May. 26, 2025
Last Purchase Order Date	Mar. 31, 2026
Last Shipment Date	Jun. 30, 2026

Please refer to our Web site about replacement information.

Multilayer Band Pass Filter

For 4920–5950MHz

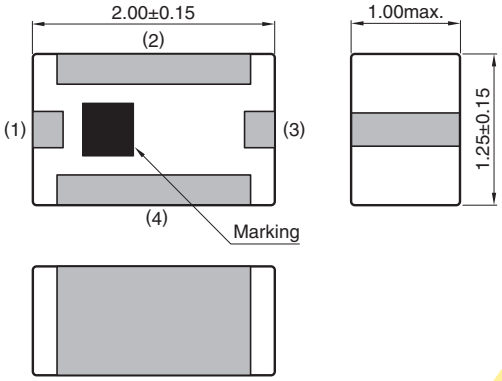
Conformity to RoHS Directive

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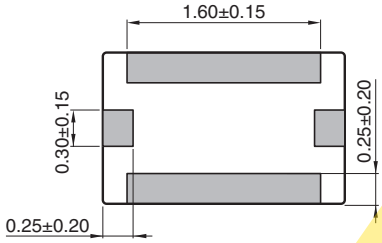
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SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

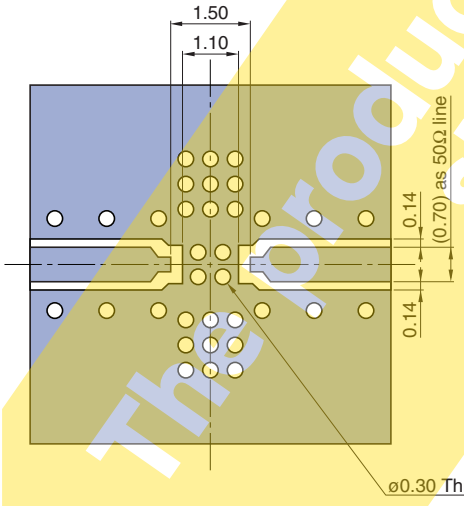


Terminal functions

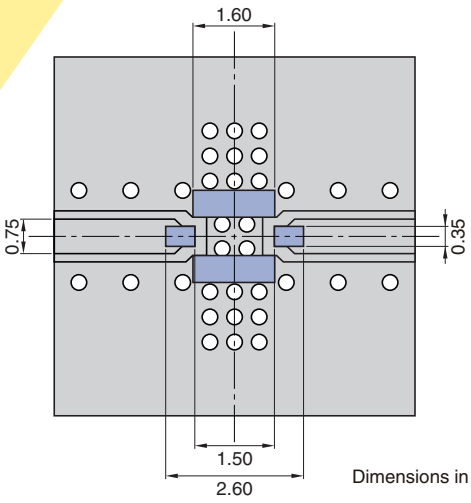
1	IN
2	GND
3	OUT
4	GND

Dimensions in mm

RECOMMENDED LAND PATTERN



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



Dimensions in mm

Metal patterning for I/O and Ground.

Patterning for Solder resist coating.

RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

- 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.	Typ.	Max.
Insertion Loss (dB)	4920 to 5950	—	0.81	1.0
Return Loss (dB)	4920 to 5950	9.54	21.2	—
Attenuation (dB)	980 to 1190	30	35.3	—
	1960 to 2380	26	30.3	—
	2940 to 3570	26	31.6	—
	7250 to 9520	26	35.0	—
Characteristic Impedance (Ω)			50 (Nominal)	

・Ta: +25±5°C

TEMPERATURE RANGE

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

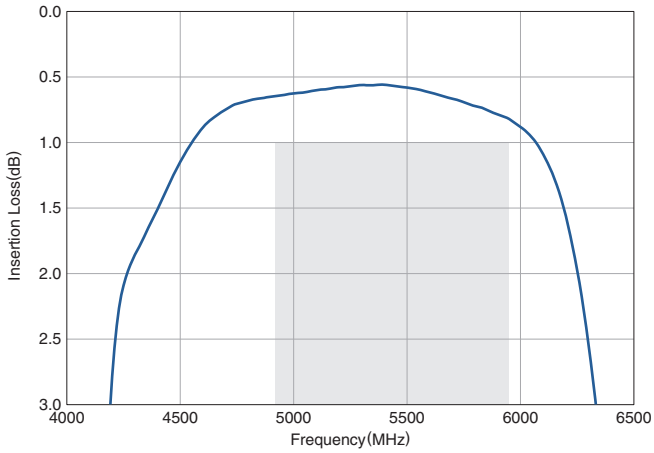
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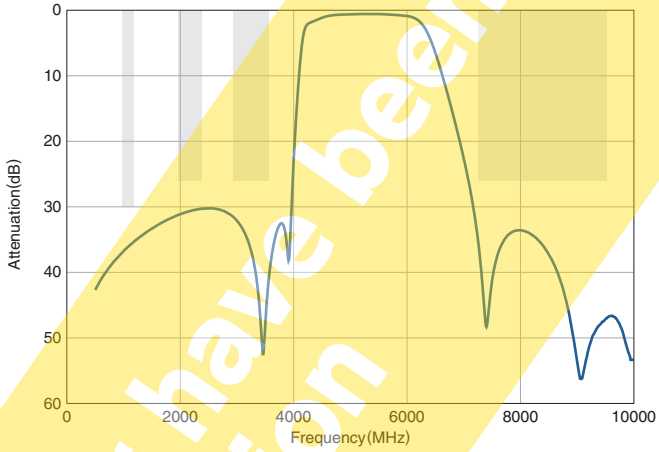
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FREQUENCY CHARACTERISTICS

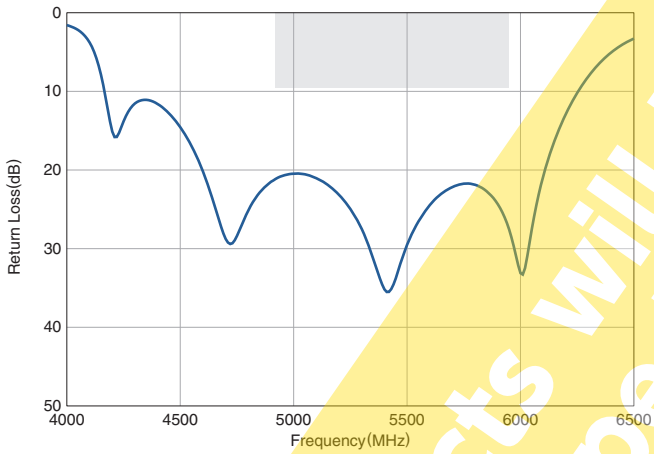
INSERTION LOSS



ATTENUATION



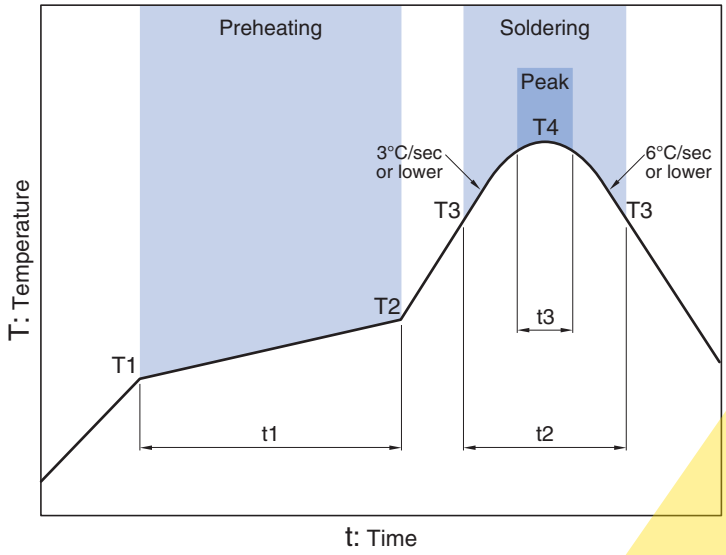
RETURN LOSS



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RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
			Critical zone (T3 to T4)		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120sec	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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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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