February 2019

Multilayer Band Pass Filter

For 3400-3600MHz

DEA203500BT-2213A1-H

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	Jun. 8, 2026
Last Purchase Order Date	Dec. 31, 2027
Last Shipment Date	Dec. 31, 2028

Please refer to our Web site about replacement information.

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Multilayer Band Pass Filter

For 3400-3600MHz

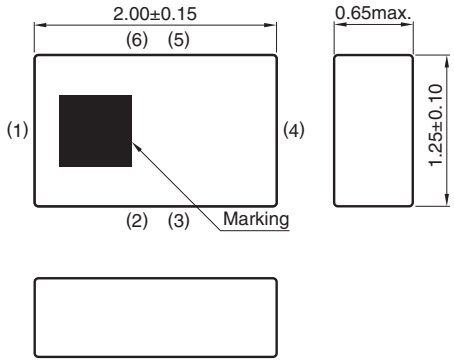
Conformity to RoHS Directive

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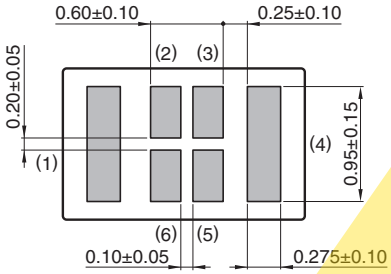
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SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

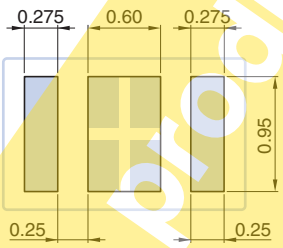


Terminal functions

1	Input/Output Port
2	GND
3	GND
4	Output/Input Port
5	GND
6	GND

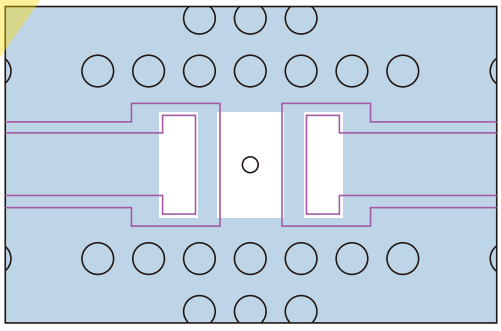
Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

EVALUATION BOARD



○ Thru hole
Resist
□ Surface Pattern

Material, Layer	Thickness
Top Resist	Resist
Copper Surface Pattern	0.035mm
Teflon	0.40mm
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.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)	3400 to 3600	—	0.84	1.00
	3400 to 3600	—	0.94	1.10 (–40 to +90°C)
Return Loss (dB)	3400 to 3600	10	22.2	—
Attenuation (dB)	500 to 2170	40	40.7	—
	880 to 960	40	43.6	—
	1710 to 1785	40	40.7	—
	2300 to 2700	32	34.5	—
	4400	6.1	19.2	—
	4800 to 4900	25	34.3	—
	4900 to 5150	30	38.7	—
	5150 to 5925	35	44.6	—
	6250 to 6550	40	45.2	—
	6800 to 7200	40	48.5	—
	7200 to 9000	35	50.1	—
	10200 to 10800	35	46.4	—
Power Handling (W)		—	—	1
Characteristic Impedance (Ω)			50 (Nominal)	

・Ta: +25±5°C

TEMPERATURE RANGE

Operating temperature (°C)	Storage temperature (°C)
–40 to +90	–40 to +90

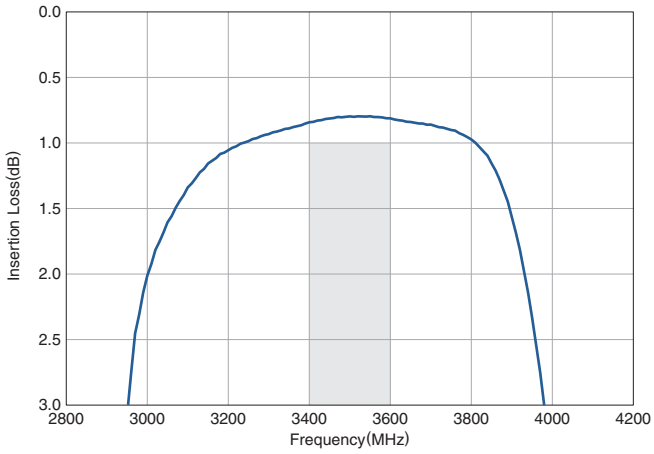
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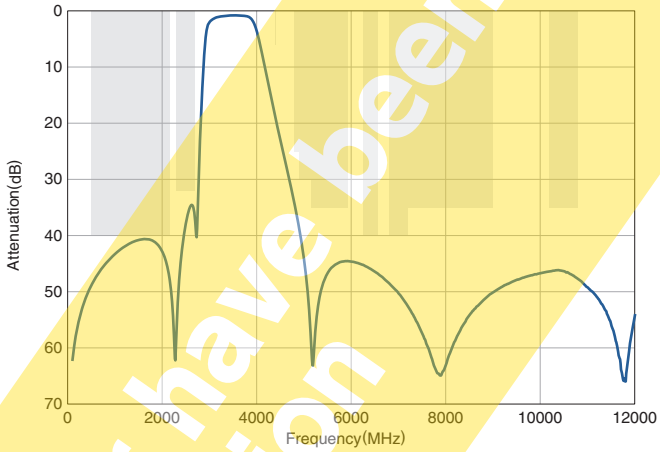
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■FREQUENCY CHARACTERISTICS

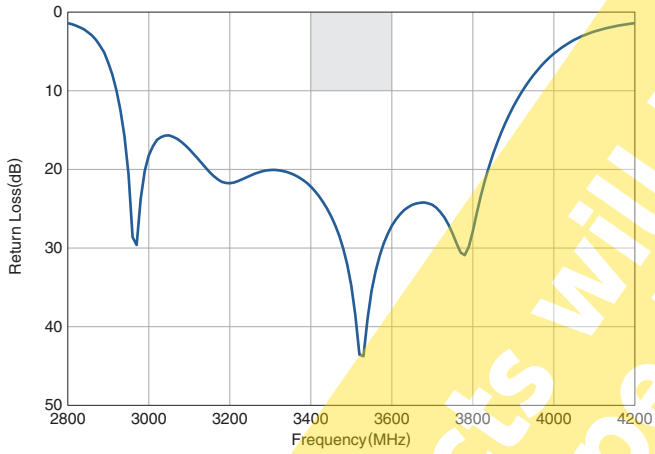
□INSERTION LOSS



□ATTENUATION



□RETURN LOSS

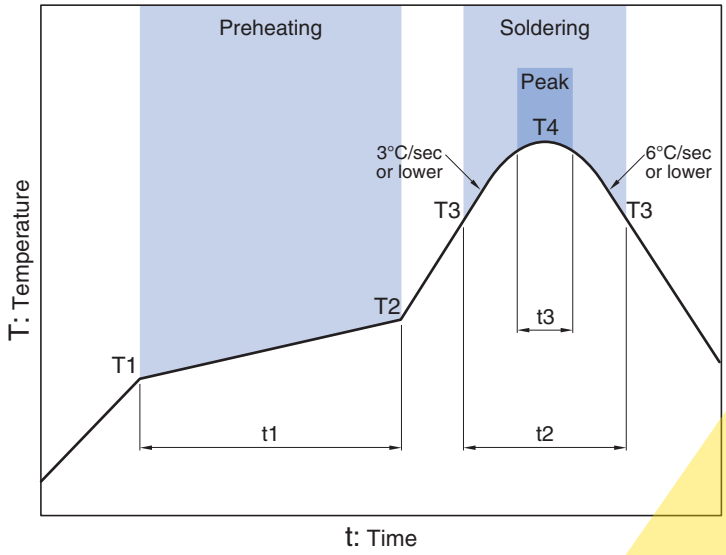


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RECOMMENDED REFLOW PROFILE



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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