



Multilayer Band Pass Filter

For 2400-2500MHz

DEA202450BT-2135E2

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]

Multilayer Band Pass Filter

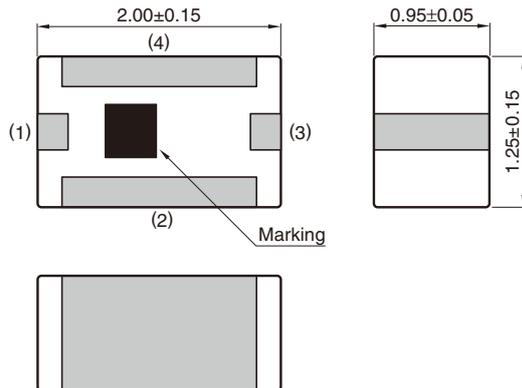
Conformity to RoHS Directive

For 2400-2500MHz

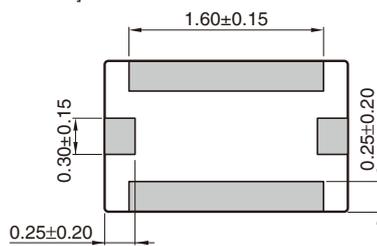
DEA202450BT-2135E2

SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

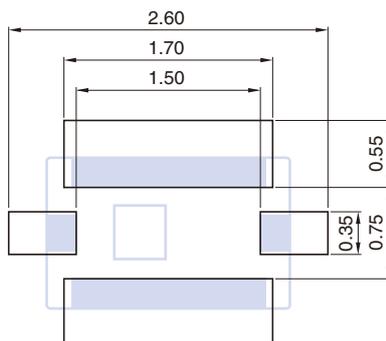


Terminal functions

1	IN
2	GND
3	OUT
4	GND

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

○ 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.

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ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2500	—	2.16	2.3
	2400 to 2500	—	—	2.5 (−40 to +85°C)
Return Loss (dB)	2400 to 2500	10	21	—
Ripple (dB)	2400 to 2500	—	0.3	0.8
Attenuation (dB)	DC to 108	40	70	—
	170 to 240	40	64	—
	470 to 698	40	54	—
	746 to 764	35	54	—
	776 to 794	35	53	—
	824 to 849	35	53	—
	869 to 915	35	52	—
	925 to 960	35	52	—
	1452 to 1492	35	51	—
	1570 to 1610	35	54	—
	1710 to 1785	40	55	—
	1805 to 1910	38	45	—
	1920 to 1990	38	41	—
	2010 to 2025	32	40	—
	2110 to 2170	25	35	—
	2750 to 3000	2	9	—
	3000 to 4800	8	17	—
	4800 to 5000	35	52	—
	5150 to 5850	30	50	—
	7200 to 7500	30	42	—
9600 to 10000	20	34	—	
12000 to 12500	10	30	—	
Power Handling (W)	2400 to 2500	—	—	0.5
Characteristic Impedance (Ω)			50 (Nominal)	

· Ta: +25±5°C

TEMPERATURE RANGE

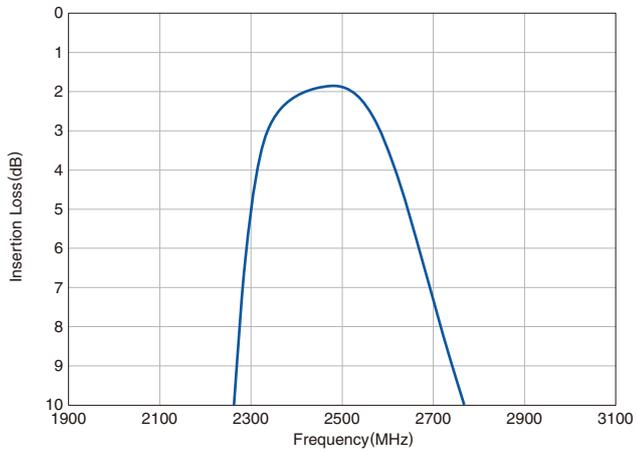
Operating temperature (°C)	Storage temperature (°C)
−40 to +85	−40 to +85

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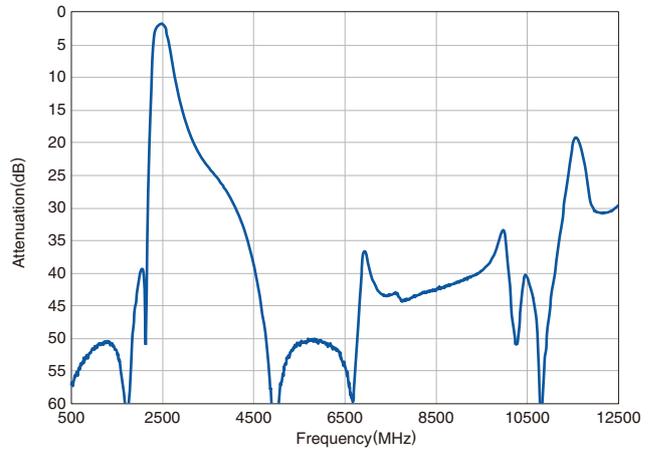
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FREQUENCY CHARACTERISTICS

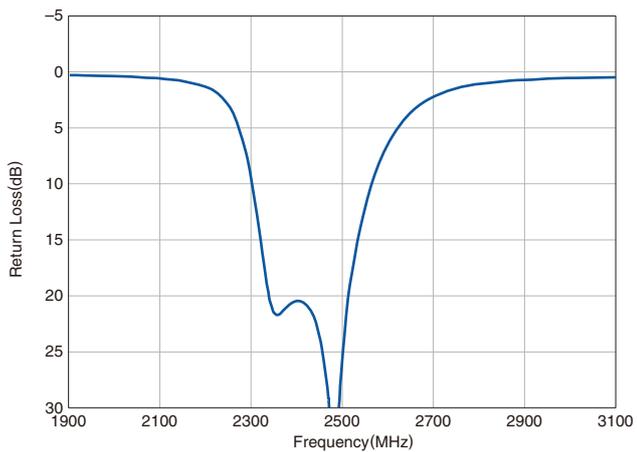
INSERTION LOSS



ATTENUATION

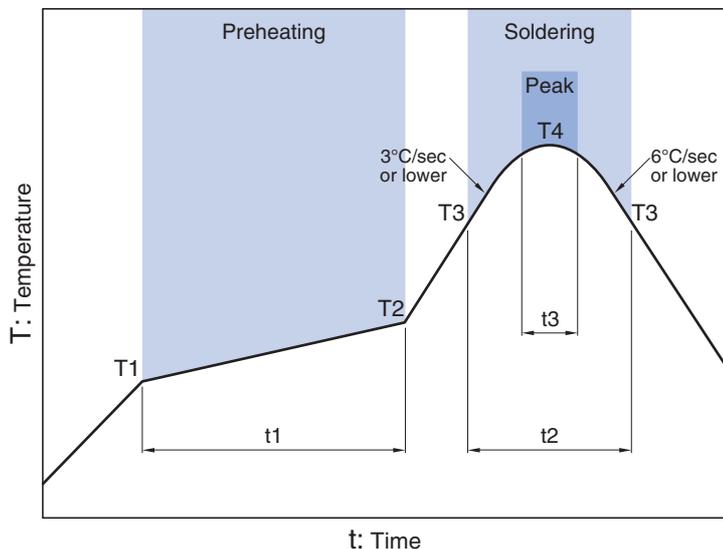


RETURN LOSS



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RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
Temp.	Time		Critical zone (T3 to T4)		Peak	
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.

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.

Mouser Electronics

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