



# Multilayer Low Pass Filter

For 698-960MHz

# DEA160960LT-5059A1

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**1.6x0.8mm [EIA 0603]\***

\* Dimensions Code JIS[EIA]

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# Multilayer Low Pass Filter

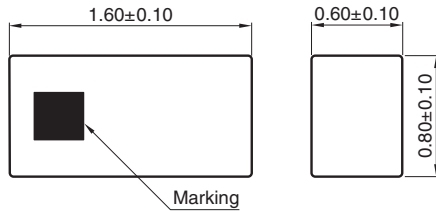
Conformity to RoHS Directive

For 698-960MHz

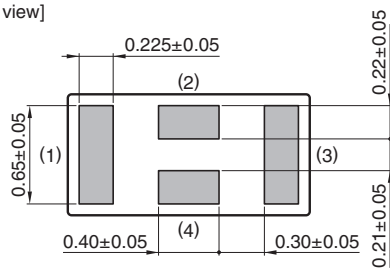
## DEA160960LT-5059A1

### SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

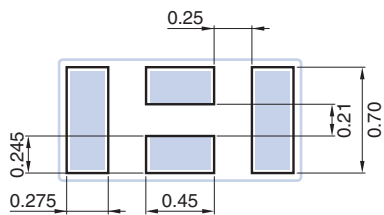


Terminal functions

1	IN/OUT
2	GND
3	OUT/IN
4	GND

Dimensions in mm

### RECOMMENDED LAND PATTERN



Dimensions in mm

○ 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.

## DEA160960LT-5059A1

### ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.	
Insertion Loss (dB)	698 to 960	—	0.28	0.35	
	698 to 960	—	—	0.45 (−40 to +90°C)	
Return Loss (dB)	698 to 960	16	19.6	—	
	1574 to 1605	12	23.6	—	
	1648 to 1698	16	35.4	—	
	1760 to 1830	21	26.9	—	
	2472 to 2494	30	40.4	—	
	2495 to 2547	13	39.5	—	
	2640 to 2745	18	34.1	—	
	3296 to 3396	16	32.6	—	
	3520 to 3660	21	32.9	—	
	Attenuation (dB)	4120 to 4245	33	36.4	—
		4400 to 4575	34	39.3	—
		4944 to 5094	41	54.2	—
		5280 to 5490	32	42.1	—
		5768 to 5943	26	36.0	—
		6160 to 6405	22	32.3	—
6592 to 6792		22	30.1	—	
7040 to 7320		19	27.9	—	
Power Handling (W)	7416 to 7614	14	26.9	—	
	7920 to 8235	4	24.9	—	
	698 to 960	—	—	4 (CW Duty 50%)	
Characteristic Impedance (Ω)			50 (Nominal)		

· Ta: +25±5°C

### TEMPERATURE RANGE

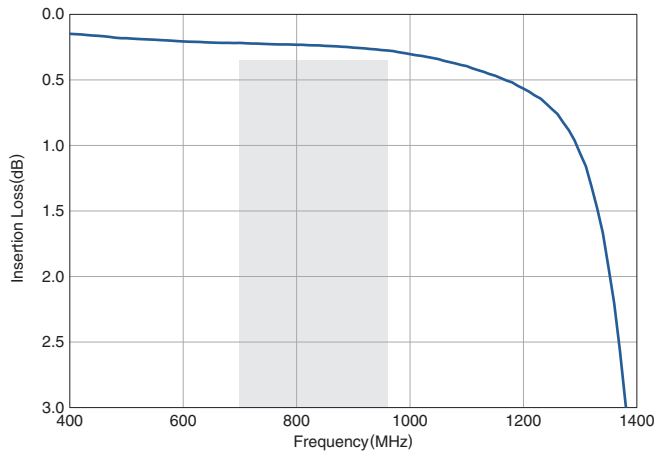
Operating temperature (°C)	Storage temperature (°C)
−40 to +90	−40 to +90

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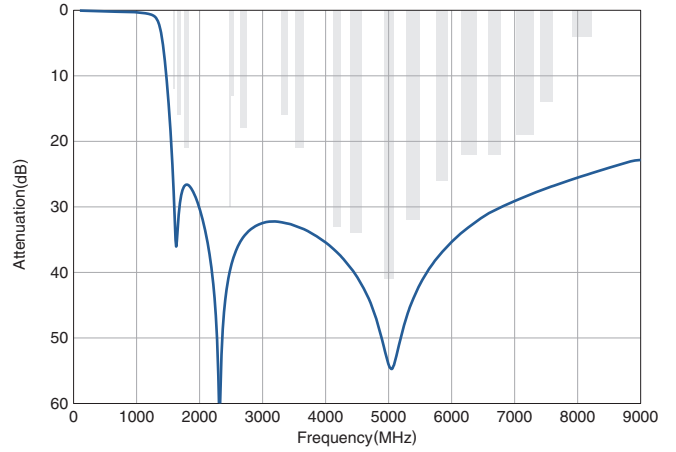
# DEA160960LT-5059A1

## FREQUENCY CHARACTERISTICS

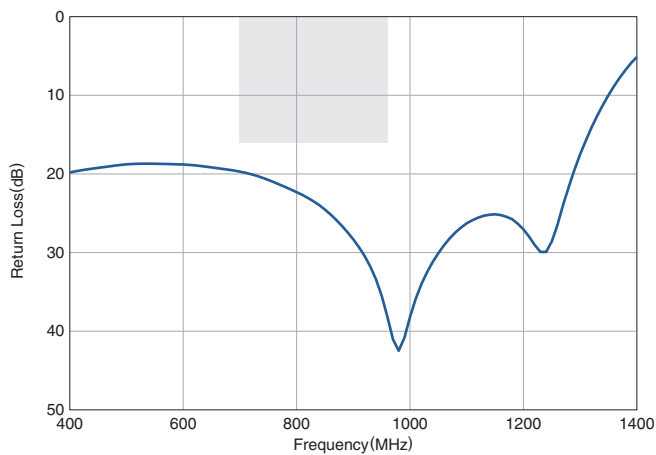
### INSERTION LOSS



### ATTENUATION

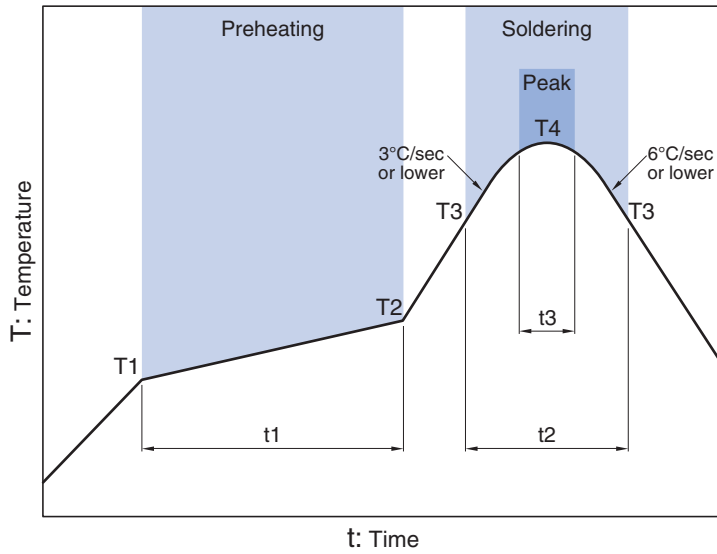


### RETURN LOSS



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## DEA160960LT-5059A1

**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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## 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。

对于需要高度安全性和可靠性的，或者设备的故障，误动作，运转不良可能会给人的生命，身体及财产等造成损害，以及有可能产生莫大社会影响的以下用途（以下称‘特定用途’）中的适用性，性能发挥，品质，本公司不予保证。

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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              |                    |

为了能够更安全地使用产品，对使用本产品目录中所记载产品的设备进行设计时，请确保符合该设备的使用用途及状态的保护回路和装置，并设置备用回路等。