

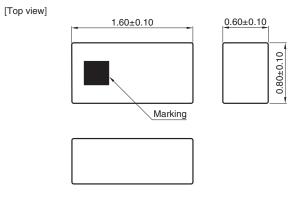
# **Multilayer Low Pass Filter**

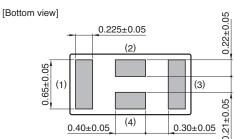
For 698-960MHz

#### Conformity to RoHS Directive

# **DEA160960LT-5059A1**

#### SHAPES AND DIMENSIONS

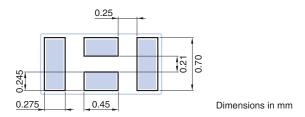




N/OUT
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OUT/IN
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)

Dimensions in mm

#### ■ RECOMMENDED LAND PATTERN



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

<sup>•</sup> All specifications are subject to change without notice.

<sup>•</sup> Before using these products, be sure to request the delivery specifications.



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#### **ELECTRICAL CHARACTERISTICS**

ltem	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	698 to 960	_	0.28	0.35
ilisei lioii Loss (ub)	698 to 960	_	_	0.45 (-40 to +90°C)
Return Loss (dB)	698 to 960	16	19.6	_
Attenuation (dB)	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	_
	4120 to 4245	33	36.4	_
	4400 to 4575	34	39.3	<del></del>
	4944 to 5094	41	54.2	<del></del>
	5280 to 5490	32	42.1	<del></del>
	5768 to 5943	26	36.0	_
	6160 to 6405	22	32.3	_
	6592 to 6792	22	30.1	<del></del>
	7040 to 7320	19	27.9	<del>_</del>
	7416 to 7614	14	26.9	<del></del>
	7920 to 8235	4	24.9	_
Power Handling (W)	698 to 960	_	_	4 (CW Duty 50%)
Characteristic Impedance ( $\Omega$ )			50 (Nominal)	

<sup>·</sup> Ta: +25±5°C

#### ■TEMPERATURE RANGE

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

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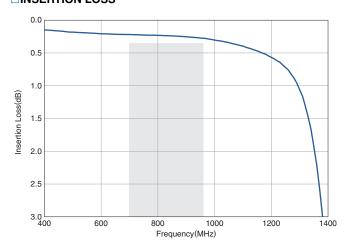
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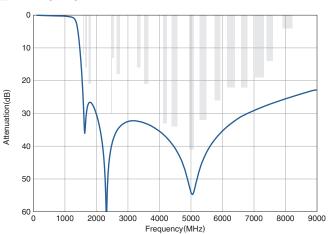
# DEA160960LT-5059A1

#### **■ FREQUENCY CHARACTERISTICS**

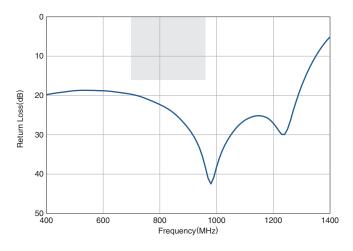
#### **□INSERTION LOSS**



#### **ATTENUATION**



#### □RETURN LOSS



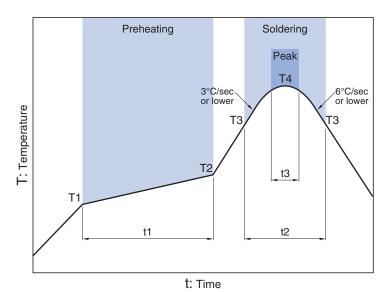
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#### ■ RECOMMENDED REFLOW PROFILE



Preheating			Soldering Critical zone (T3 to T4) Peak			
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120sec	240 to 260°C	30sec max.

 $<sup>^{\</sup>ast}\,\text{t3}$  : Time within  $5^{\circ}\text{C}$  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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