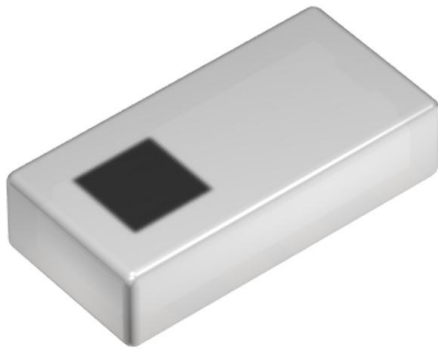


# DEA162690LT-5064A1 Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	DEA162690LT-5064A1-DG
Manufacturer	<a href="#">TDK Corporation</a>
Manufacturer Product Number	DEA162690LT-5064A1
Description	RF FILTER LO PASS 1.6945GHZ 0603
Detailed Description	1.6945GHz Center Frequency Low Pass RF Filter (Radio Frequency) 1.991GHz Bandwidth 0.18dB 0603 (1608 Metric), 4 PC Pad

This model DEA162690LT-5064A1 is available at DiGi Electronics.

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We welcome your inquiries regarding pricing, lead time, or other product-related questions.

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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

DEA162690LT-5064A1

Series:

DEA

Frequency:

1.6945GHz Center

Filter Type:

Low Pass

Insertion Loss:

0.18dB

Package / Case:

0603 (1608 Metric), 4 PC Pad

Height (Max):

0.028" (0.70mm)

Manufacturer:

TDK Corporation

Product Status:

Active

Bandwidth:

1.991GHz

Ripple:

-

Mounting Type:

Surface Mount

Size / Dimension:

0.063" L x 0.031" W (1.60mm x 0.80mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8548.00.0000



# Multilayer Low Pass Filter

For 699-2690MHz

# DEA162690LT-5064A1

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

\* Dimensions Code JIS[EIA]

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# Multilayer Low Pass Filter

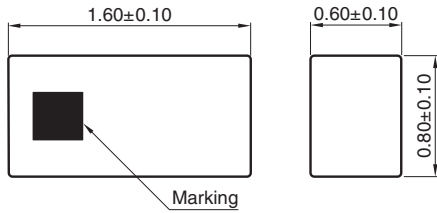
Conformity to RoHS Directive

For 699-2690MHz

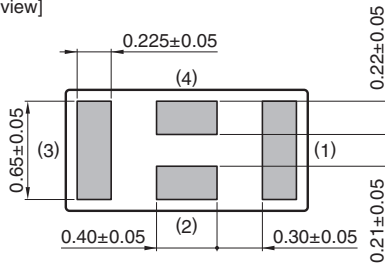
## DEA162690LT-5064A1

### SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

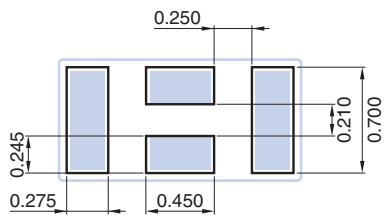


Terminal functions

1	Input / Output Port
2	GND
3	Output / Input Port
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.

# DEA162690LT-5064A1

## ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	699 to 2690	—	0.09	0.18
	699 to 2690	—	—	0.23 (−40 to +90°C)
Return Loss (dB)	699 to 2690	15	22	—
Attenuation (dB)	5150 to 5960	23	29	—
Power Handling (dBm)		—	—	35
Characteristic Impedance (Ω)			50 (Nominal)	

· Ta: +25±5°C

## TEMPERATURE RANGE

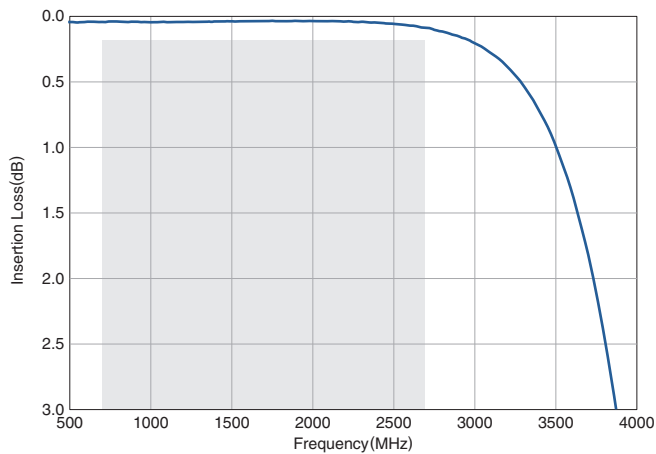
Operating temperature (°C)	Storage temperature (°C)
−40 to +90	−40 to +90

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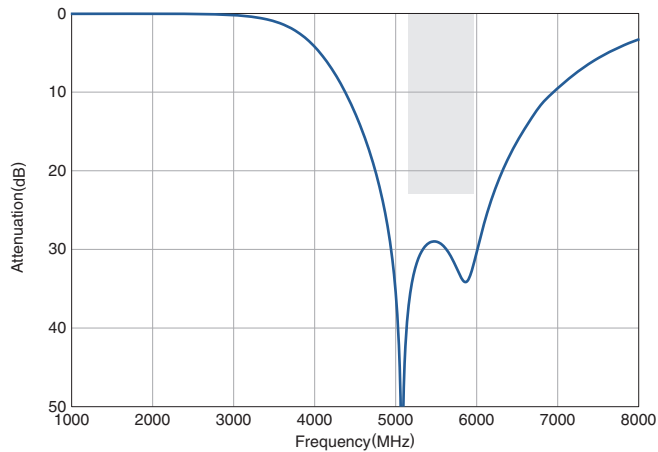
## DEA162690LT-5064A1

## FREQUENCY CHARACTERISTICS

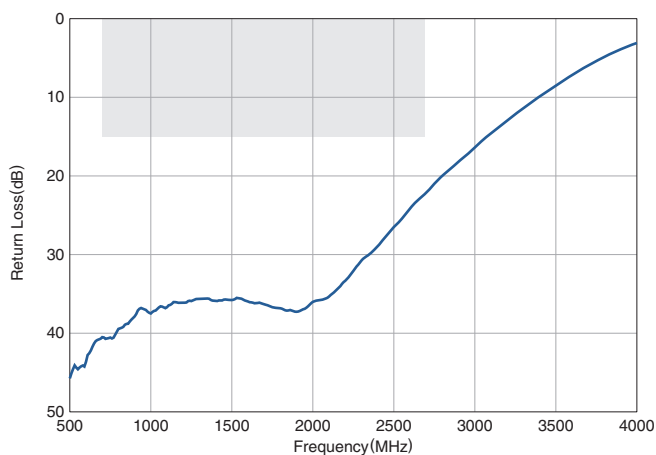
## INSERTION LOSS



## ATTENUATION



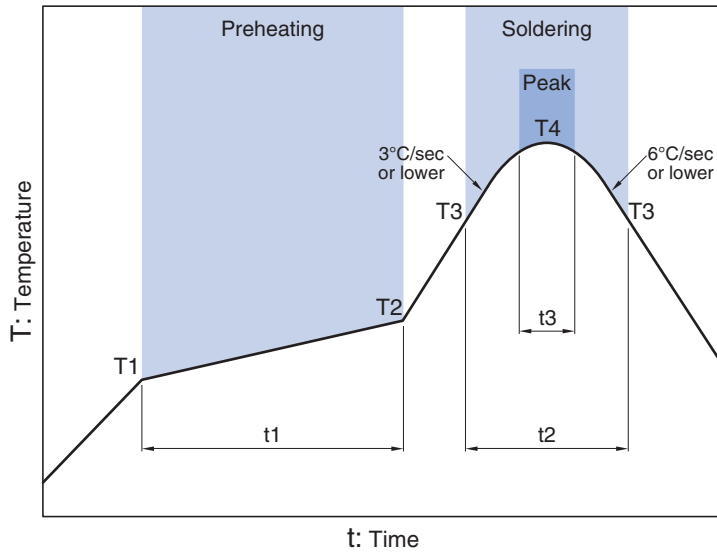
## RETURN LOSS



- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

# DEA162690LT-5064A1

## RECOMMENDED REFLOW PROFILE



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

- All specifications are subject to change without notice.
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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                                  | (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.

## OUR CERTIFICATE

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