

Multilayer Low Pass Filter

For 5-1002MHz

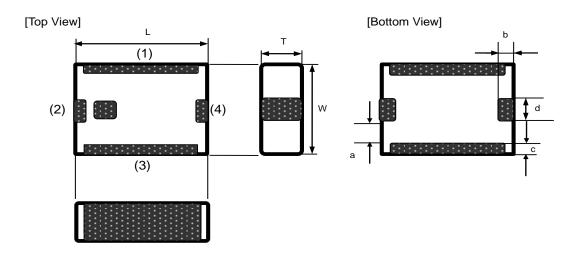
DEA Series 2.5x2.0mm [EIA 1008] TYPE

P/N: **DEA251002LT-5048A1** 



# **DEA251002LT-5048A1**

## SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	а	b	С	d	
2.50	2.00	1.00	0.30	0.25	0.25	0.50	
+/-0.20	+/-0.20	Max	Min	+/-0.15	+/-0.15	+/-0.20	

Terminal functions

(1)	GND						
(2)	Input Port						

(3)	GND
(4)	Output Port

# **■ TERMINATION FINISH**

Material
Sn plate



## **DEA251002LT-5048A1**

## ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Freque	ncv	(MH2)	TDK Spec			
raiametei	reque	псу	(1411 12)	Min.	Тур.	Max.	
Insertion Loss (dB)	5	to	1002	1	1.77	2.40	
Insertion Loss (dB)	5	to	1002	-	-	2.63	
( –40 to +105 °C )							
VSWR	5	to	1002	1	1.74	-	
Attenuation (dB)	1125	to	1675	28	33	-	
Characteristic Impedance (ohm)				75	(Nomii	nal)	

Ta = +25 + /-5°C

Single ended port characteristic impedance: 75 Ohm

## MAXIMUM RATINGS

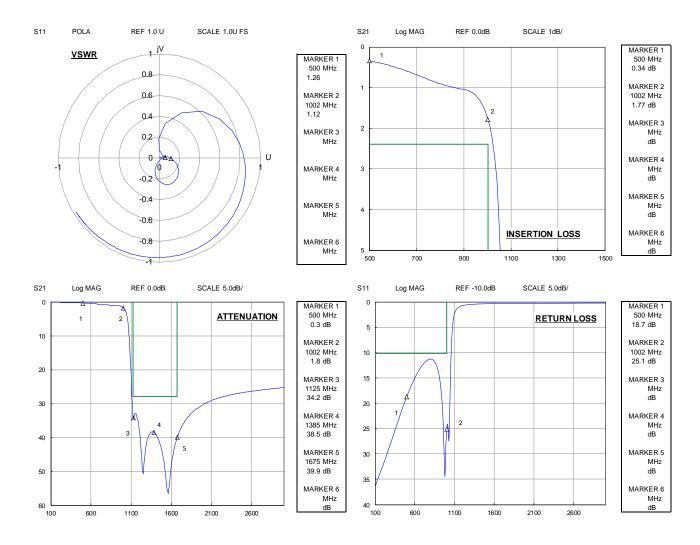
Parameter	TDK Spec	Conditions	
Operating temperature (°C)		–40 to +105 °C	
Storage temperature (°C)		–40 to +105 °C	
Power Handling (W) *1	Frequency (MHz)		
	5 to 1002	1	CW
Human Body Model: HBM	@Each Port (V)	+/-1000	100pF / 1500ohm
Machine Model : MM	@Each Port (V)	+/-150	200pF / 0ohm
Charged Device Model: CDM	@Each Port (V)	+/-500	Humidity: 60%RH max

\*1: Refer to 3GPP TS 38.101-1 V15.2.0



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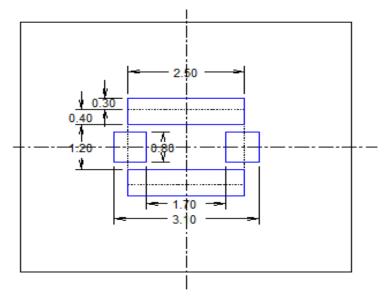
#### FREQUENCY CHARACTERISTICS





## **DEA251002LT-5048A1**

## RECOMMENDED LAND PATTERN



Unit:[mm]

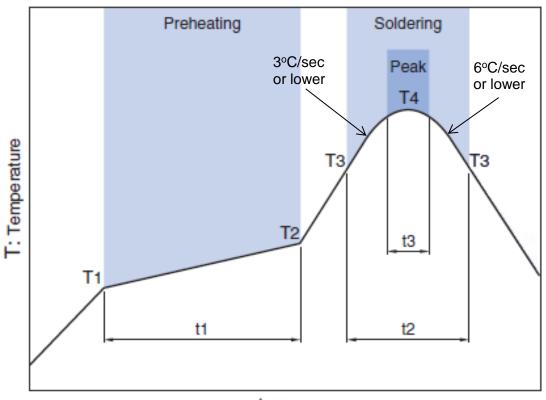
# ■ ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance



## **DEA251002LT-5048A1**

#### RECOMMENDED REFLOW PROFILE



t: Time

	Drobe	ating	Soldering					
Preheating			Critical zon	e (T3 to T4)	Peak			
Ter	mp.	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	30 sec Max		

\* t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

Note: Lead free solder is recommended.

Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

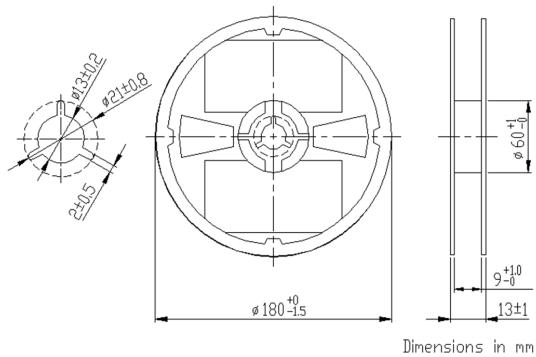
## GENERAL TECHNICAL INFORMATION

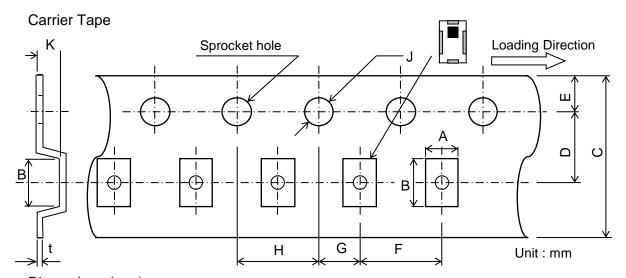
https://product.tdk.com/en/system/files?file=dam/doc/product/rf/rf/filter/general\_tech\_info/rf\_general-technical-info\_02\_en.pdf

# **DEA251002LT-5048A1**

## PACKAGING STYLE

#### **Reel Dimensions**





#### Dimensions (mm)

Α	В	C	D	Е	F	G	Н	J	K	t
2.4	2.9	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.25	0.25
+/-0.1	+/-0.1	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

STANDARD PACKAGE QUANTITY
( pieces/reel )
2,000



#### 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.

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

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