

Multilayer Low Pass Filter

For 698-960MHz

DEA Series 2.0x1.25mm [EIA 0805] TYPE

P/N: **DEA200960LT-5055B1** 

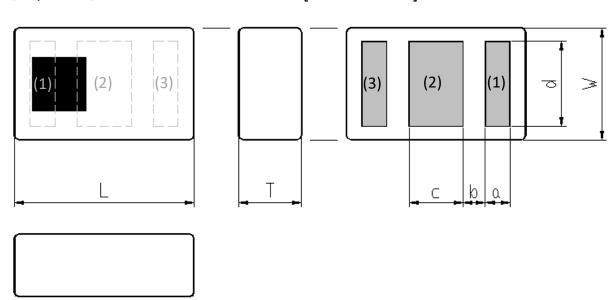


# **DEA200960LT-5055B1**

## SHAPES AND DIMENSIONS

[Top View]

[Bottom View]



#### Dimensions (mm)

L	W	T	а	b	С	d	
2.00	1.25	0.70	0.275	0.25	0.60	0.95	
+/-0.15	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	

#### Terminal functions

(1)	Input Port					
(2)	GND					
(3)	Output Port					

# TERMINATION FINISH

Material
Au plate



# **DEA200960LT-5055B1**

## ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Frequency (MHz)			TDK Spec		
Parameter	Freque	псу	(IVIITIZ)	Min.	Тур.	Max.
Insertion Loss (dB)	698	to	960	-	0.22	0.30
Insertion Loss (dB)	698	to	960	-	-	0.35
( –40 to +90 °C )						
VSWR	698	to	960	-	1.11	1.50
Attenuation (dB)	1560	to	1610	15	20	-
	1648	to	9600	25	28	-
	9600	to	12700	12	20	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

 $Ta = +25 + /-5 ^{\circ}C$ 

## MAXIMUM RATINGS

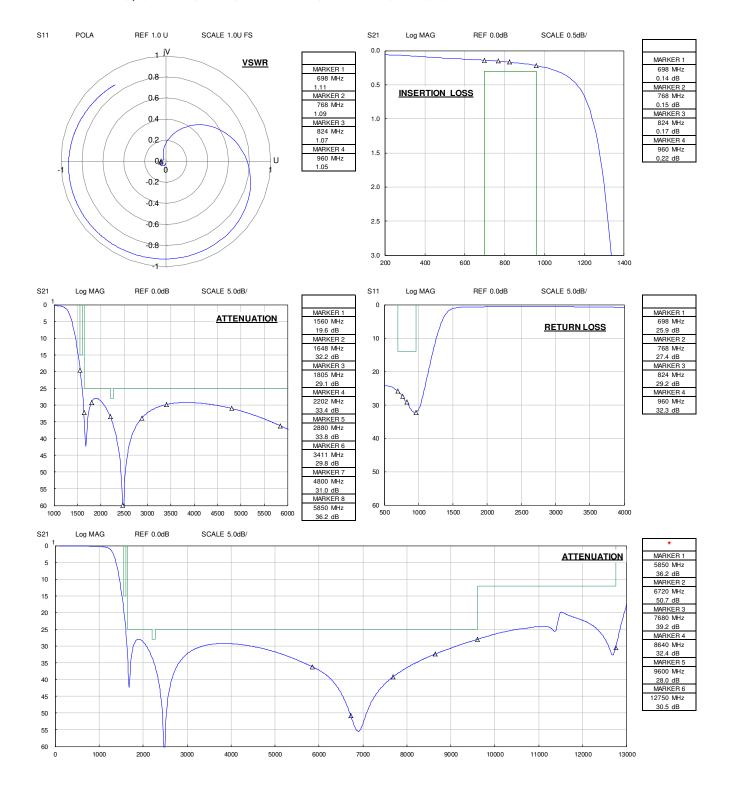
Parameter		TDK S	Spec	Conditions	
Parameter		Min.	Max.	Conditions	
Operating temperature (°C)			+90 °C		
Storage temperature (°C)			+90 °C		
Power Handling (W) *1			4	Duty 50%	
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm	
Machine Model : MM @Each Port (V)		-150	150	200pF / 0ohm	
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity : 60%RH max	

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



# **DEA200960LT-5055B1**

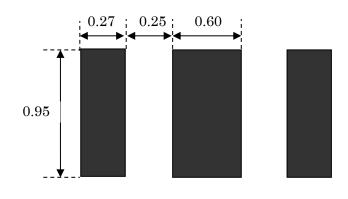
#### FREQUENCY CHARACTERISTICS





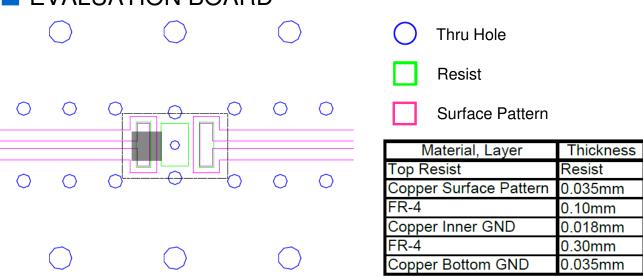
## **DEA200960LT-5055B1**

#### RECOMMENDED LAND PATTERN



## EVALUATION BOARD

Unit: mm



<sup>\*</sup> Line width should be designed to mach 50 ohm characteristic impedance depending on PCB material and thickness.

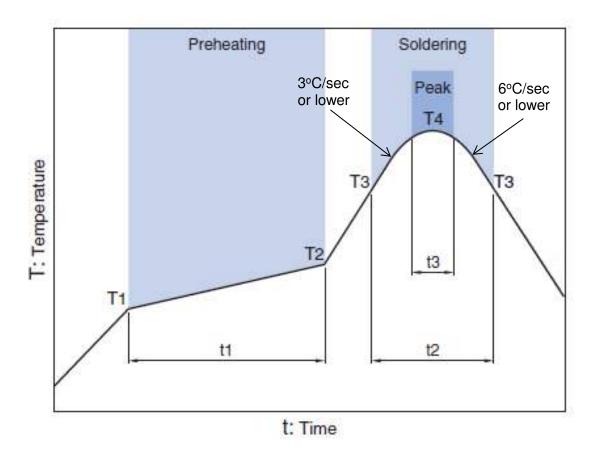
## ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance



## **DEA200960LT-5055B1**

#### RECOMMENDED REFLOW PROFILE



**Soldering Preheating** Critical zone (T3 to T4) **Peak** Temp. Time **Time** Time Temp. Temp. **T3 T4 T1** t1 **t2** 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)

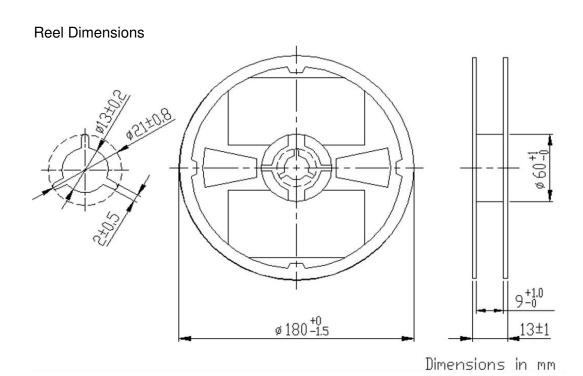
# GENERAL TECHNICAL INFORMATION

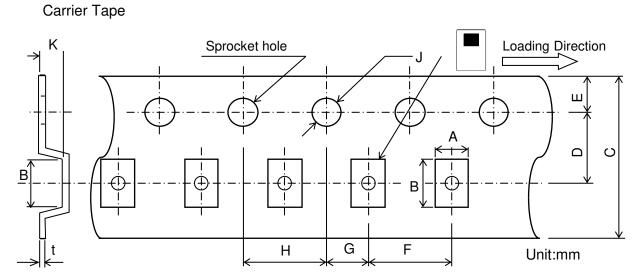
 $\underline{\text{https://product.tdk.com/en/system/files?file=dam/doc/product/rf/rf/diplexer/general tech info/rf general-technical-info 02 en.pdf}$ 



# **DEA200960LT-5055B1**

## PACKAGING STYLE





Dimer	nsions	(mm)								
Α	В	C	D	Е	F	G	Η	7	K	t
1.45	2.25	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.05	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
_,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.

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