

Multilayer Low Pass Filter

For 698-960MHz

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

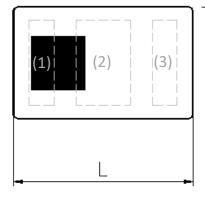
P/N: DEA200960LT-5055B1

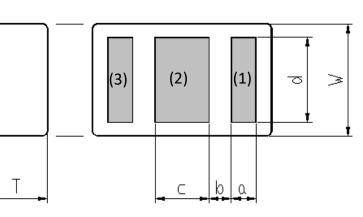
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SHAPES AND DIMENSIONS

[Top View]

[Bottom View]







Dimensions (mm)

L	W	T	a 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

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RF Components

ELECTRICAL CHARACTERISTICS

(Measurement)

TDK Spec

Max. 0.30

0.35

1.50

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Parameter	Freque	nev	/MU-)	TDK Spec			
Farameter	ITEque	псу	(101112)	Min.	Тур.	Ma	
Insertion Loss (dB)	698	to	960	-	0.22	0.3	
Insertion Loss (dB)	698	to	960	-	-	0.3	
(−40 to +90 °C)							
VSWR	698	to	960	-	1.11	1.5	
					Typ. 0.22		
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°C

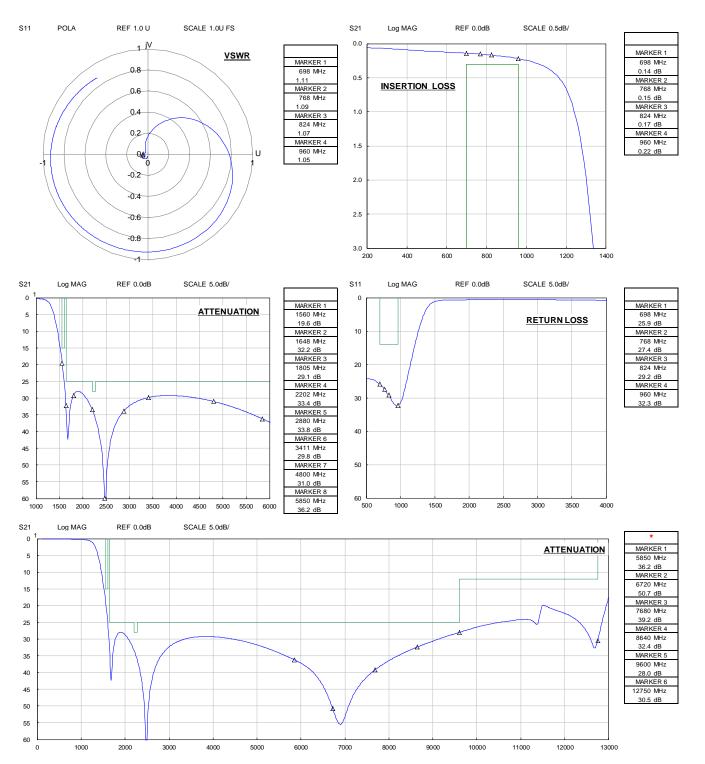
MAXIMUM RATINGS

Parameter		TDK	Spec	Conditions		
Farameter		Min.	Max.	Conditions		
Operating temperature (°C)		–40 to ·	+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

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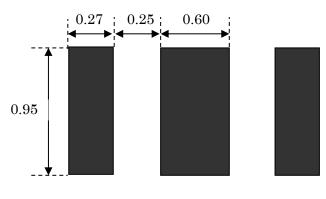
FREQUENCY CHARACTERISTICS



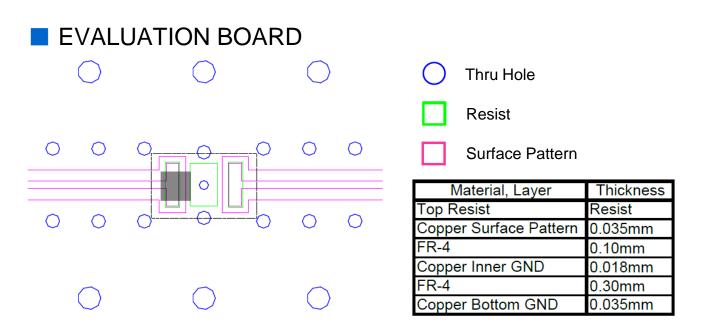
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RECOMMENDED LAND PATTERN



Unit : mm



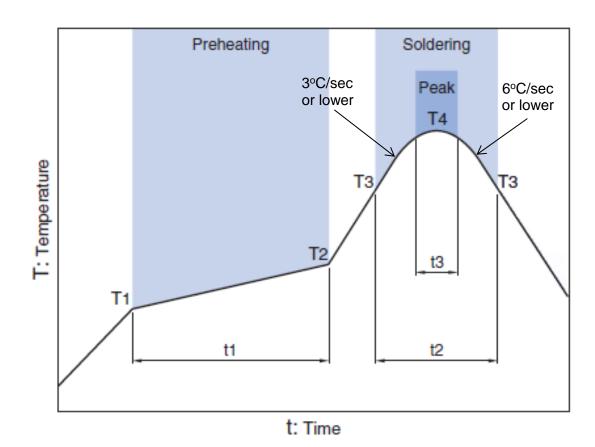
* Line width should be designed to mach 50 ohm characteristic impedance depending on PCB material and thickness.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



Preheating		Soldering						
		Critical zon	e (T3 to T4)	Peak				
Temp. Time		Time	Temp. Time		Temp. Time			
T1	T2 t1 T		T3	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/diplexer/general_tech_info/rf_general-technical-info_02_en.pdf

RF Components

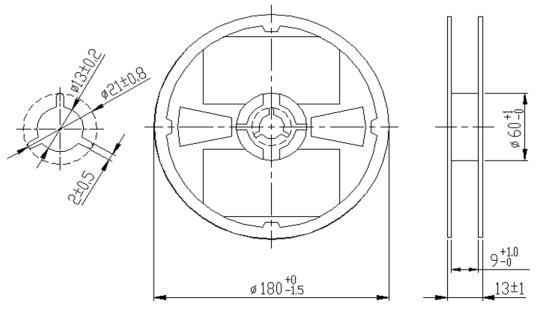
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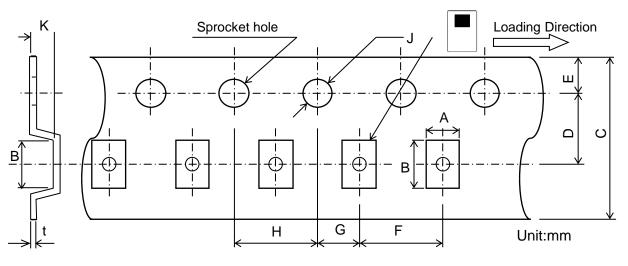
PACKAGING STYLE

Reel Dimensions



Dimensions in mm

Carrier Tape



Dimensions (mm)

Α	В	С	D	Ε	F	G	Н	J	K	t
1.45										
+/-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

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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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