

Multilayer Low Pass Filter
For LTE

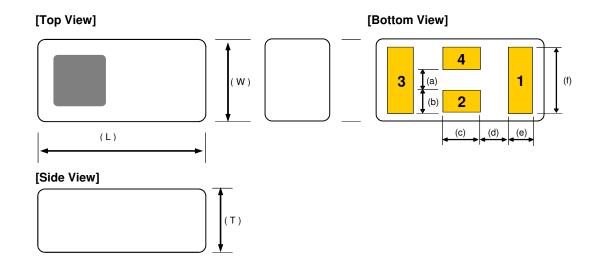
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA162690LT-5051B1**



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SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	а	b	С	d	е	f
1.60	0.80	0.60	0.21	0.22	0.40	0.30	0.225	0.65
+/-0.10	+/-0.10	+/-0.10	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

Terminal functions

(1)	In/Out Port
(2)	GND
(3)	Out/In Port
(4)	GND

TEMPERATURE RANGE

Operating temperature	Storage temperature			
−40 to +85 °C	−40 to +85 °C			



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ELECTRICAL CHARACTERISTICS

(Measurement)

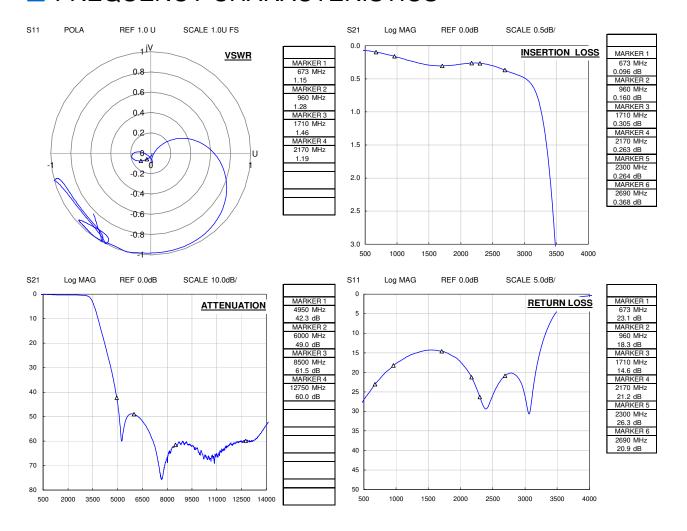
Parameter	Frequency (MHz)		TDK Spec			
Parameter			Min.	Тур.	Max.	
Insertion Loss (dB)	673	to	2690	-	0.37	0.50
Insertion Loss (dB)	673	to	2690	-	-	0.60
(-40 to +85 °C)						
Ripple (dB)	673	to	2690	-	0.07	0.20
(Over any 200 MHz range)						
G.D.Ripple (ns)	673	to	2690	-	0.01	-
(Over any 20 MHz range)						
VSWR	673	to	2690	ı	1.5	2.0
Attenuation (dB)	4950	to	6000	35	42	-
	6000	to	12750	45	49	-
Power Handling (dBm)				-	-	35
Characteristic Impedance (ohm)		, and the second			50 (Nominal)	

Ta = +25 + /-5°C



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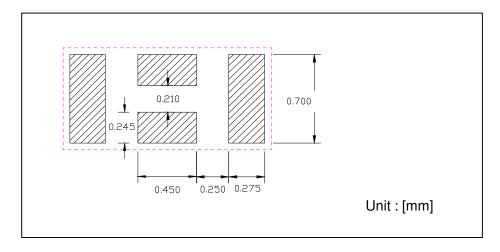
■ FREQUENCY CHARACTERISTICS



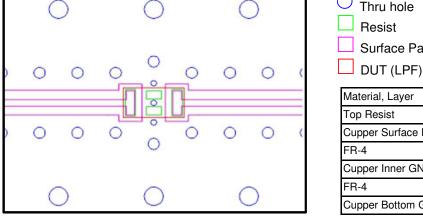


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RECOMMENDED LAND PATTERN



EVALUATION BOARD



0	Thru hole
	Resist
	Surface Pattern
	DLIT (LDE)

Material, Layer	Thickness		
Top Resist	Resist		
Cupper Surface Pattern	0.035mm		
FR-4	0.10mm		
Cupper Inner GND	0.018mm		
FR-4	0.30mm		
Cupper Bottom GND	0.035mm		

^{*} Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.

ENVIRONMENT INFORMATION

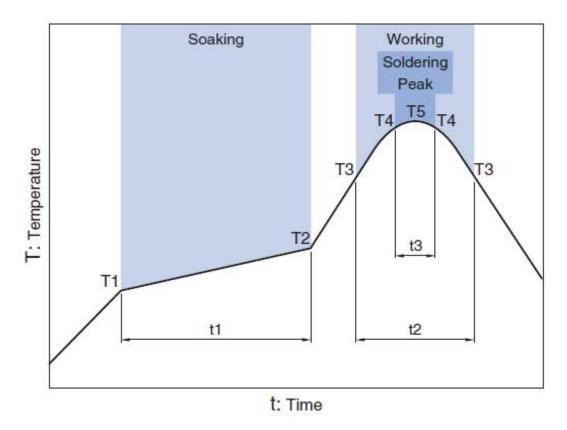
RoHS Statement RoHS Compliance



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RECOMMENDED REFLOW PROFILE

Pb free solder



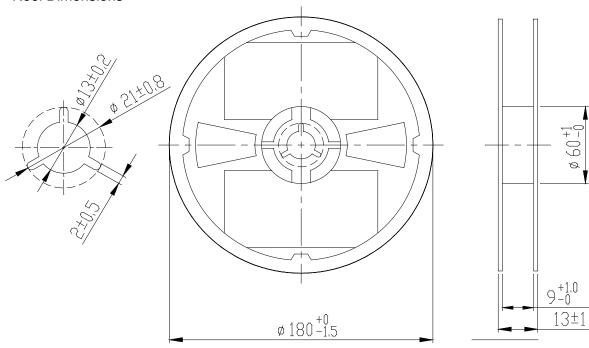
Soaking		V	Vorking	Sold	Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	Т3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.



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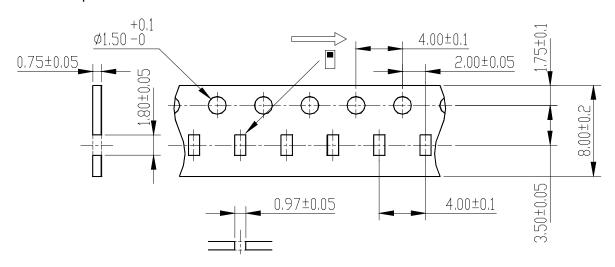
PACKAGING STYLE

Reel Dimensions



Dimensions in mm

Carrier Tape



STANDARD PACKAGE QUANTITY (pieces/reel) 4,000



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 specification sheet 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 specification sheet.

- 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.