

Multilayer Low Pass Filter

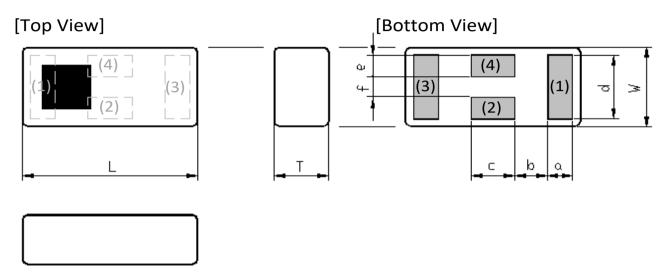
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA160960LT-5113B1**



DEA160960LT-5113B1

SHAPES AND DIMENSIONS



Dimensions (mm)

וטוווט	1010110	(111111)						
٦	W	Т	а	b	С	d	е	f
1.60	0.80	0.70	0.225	0.30	0.40	0.65	0.22	0.21
+/-0.10	+/-0.10	Max	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

Terminal functions

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

■ TERMINATION FINISH

Material
Au plate

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ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Erogue	Frequency (MHz)			TDK Spec		
Parameter	Freque	псу	(IVITZ)	Min.	Тур.	Max.	
Insertion Loss (dB)	690	to	960	-	0.64	0.90	
		to		ı			
Insertion Loss (dB)	690	to	960	-	-	0.96	
(-40 to +85 °C)		to		ı			
Return Loss (dB)	690	to	960	10	18.4	-	
		to				-	
Attenuation (dB)	1350	to	1920	20	25.9	-	
	2070	to	2880	48	53.0	-	
		to					
Characteristic Impedance (ohm)				50	(Nomi	nal)	

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

MAXIMUM RATINGS

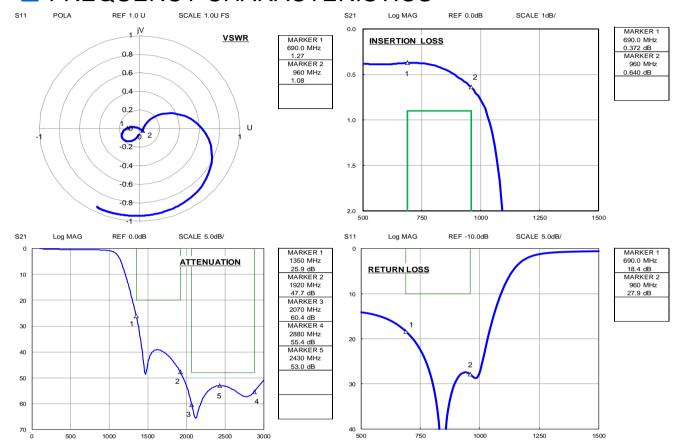
Parameter		TDK :	Spec	Conditions	
Parameter		Min.	Max.	Conditions	
Operating temperature (°C)		–40 to	+85 °C		
Storage temperature (°C)			+85 °C		
Power Handling (W)		ı	2	CW at 690~960MHz	
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm	
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm	
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity : 60%RH max	

Ambient temperature: +25+/-5°C



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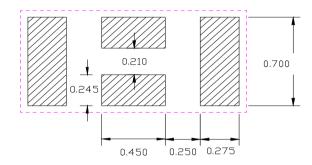
■ FREQUENCY CHARACTERISTICS





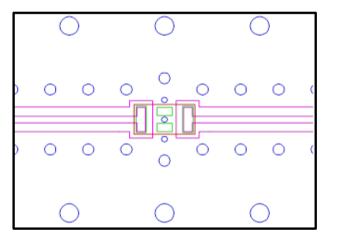
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RECOMMENDED LAND PATTERN



Unit: [mm]

EVALUATION BOARD





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

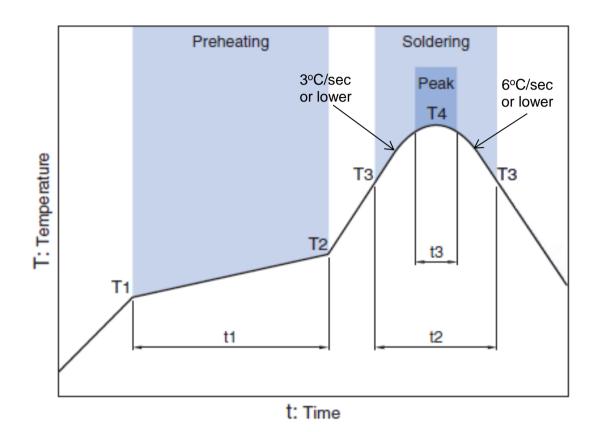
^{*} Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



	Drobe	oting	Soldering					
	FIEII	eating	Critical zon	e (T3 to T4)	Peak			
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	30 sec Max		

* t3 : Time within 5°C of actual peak temperature The maximum number of reflow is 3.

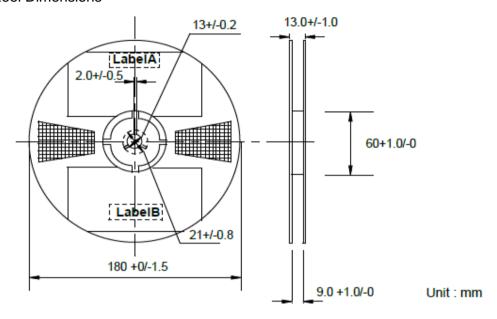
Note: Lead free solder is recommended.

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

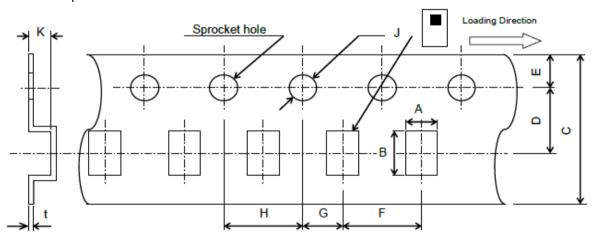
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PACKAGING STYLE

Reel Dimensions



Carrier Tape



Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	K	t
0.97	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	8.0	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

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.