

Multilayer Low Pass Filter

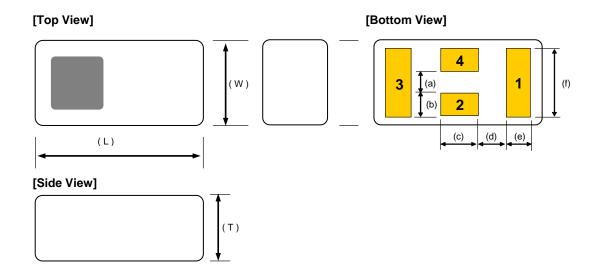
For 1880-2025MHz

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

P/N: **DEA162025LT-5046E1** 

# **DEA162025LT-5046E1**

# SHAPES AND DIMENSIONS



Dimensions (mm)

LW		T	а	h	_	Ь	Δ	f
1.00			0 0 4	0.00	0	<b>u</b>		
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)	Input / Output Port
(2)	GND

(3)	Output / Input Port
(4)	GND

# TERMINATION FINISH

Material
Au plate



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# ELECTRICAL CHARACTERISTICS

( Measurement )

Parameter	Freque	nov	/MU-)	TDK Spec			
Farameter	Freque	псу	(IVIITZ)	Min.	Тур.	Max.	
Insertion Loss (dB)	1880	to	1920	-	0.43	0.60	
	1920	to	1980	•	0.52	0.70	
	2010	to	2025	-	0.61	0.80	
Insertion Loss (dB)	1880	to	1920	-	-	0.75	
( –40 to +85 °C )	1920	to	1980	-	-	0.90	
	2010	to	2025	-	-	1.00	
VSWR	1880	to	2025	•	1.1	2.0	
Attenuation (dB)	2400	to	2500	15	21	-	
	5150	to	5850	12	15		
	3760	to	4050	20	26		
	5640	to	6075	12	14	-	
	7520	to	8100	5	7	-	
Power Handling (dBm)				-	-	30	
Characteristic Impedance (ohm)				50 (Nominal)			

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

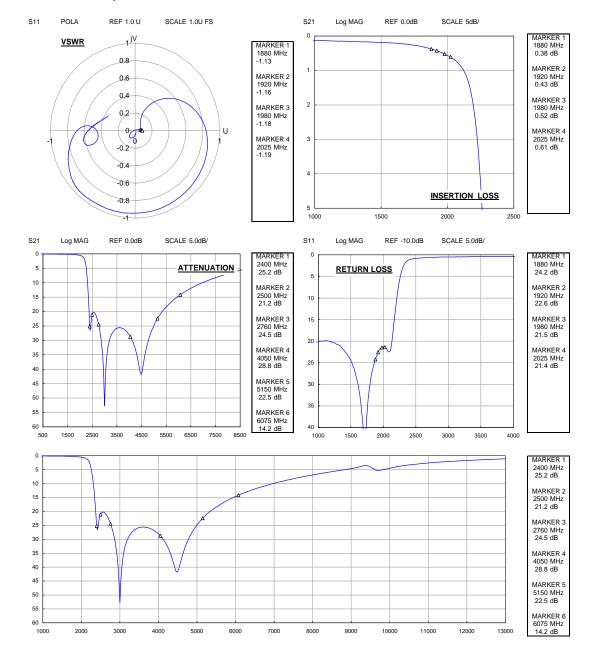
# MAXIMUM RATINGS

Parameter		TDK :	Spec	Conditions		
Parameter		Min.	Max.	Conditions		
Operating temperature (°C)		–40 to	+85 °C			
Storage temperature (°C)		–40 to	+85 °C			
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	Relative humidity: 60%RH max		

Ambient temperature: +25+/-5°C

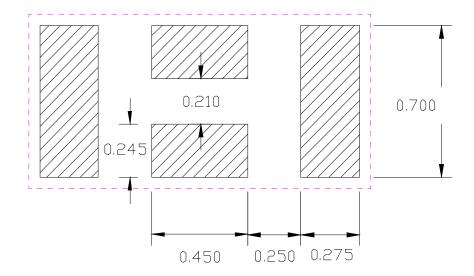
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# FREQUENCY CHARACTERISTICS

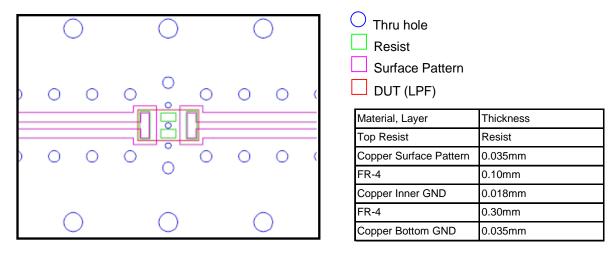


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### RECOMMENDED LAND PATTERN



### EVALUATION BOARD



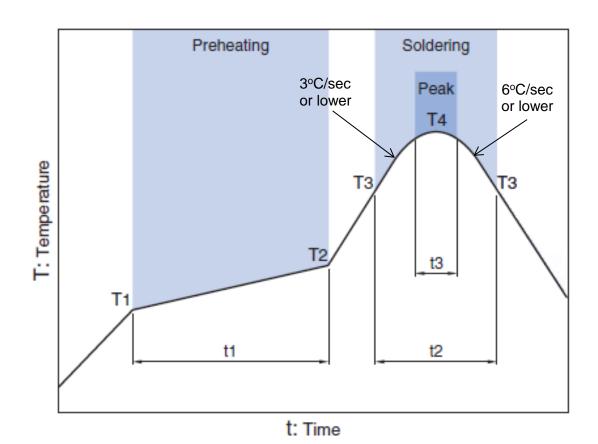
<sup>\*</sup> Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.

# ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

# **DEA162025LT-5046E1**

### RECOMMENDED REFLOW PROFILE



	Drohe	ating	Soldering						
Preheating			<b>Critical zon</b>	e (T3 to T4)	Peak				
Temp.		Time	Temp. Time		Temp.	Time			
T1 T2		t1	Т3	t2	T4	t3 *			
150°C	50°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.

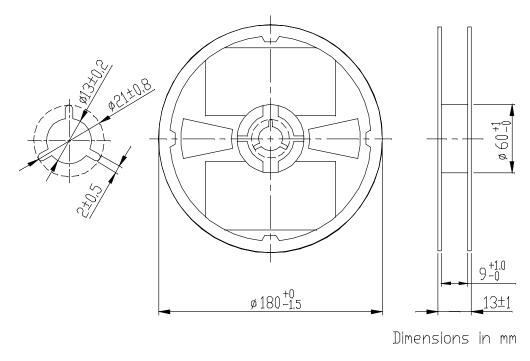
Note: Lead free solder is recommended.

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

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# PACKAGING STYLE

#### **Reel Dimensions**

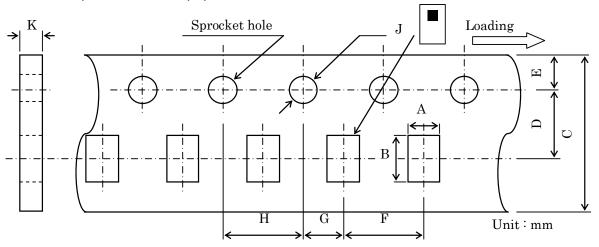


STANDARD PACKAGE QUANTITY
( pieces/reel )
4,000

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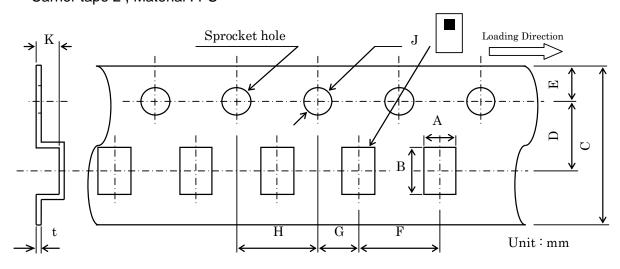
Carrier tape 1, Material: paper



Dimensions (mm)

		( )							
Α	В	С	D	Е	F	G	Н	J	K
0.95	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.80
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX

Carrier tape 2, Material: PS



#### 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	0.80	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

<sup>&</sup>quot;Carrier tape 1" is currently adopted. "Carrier tape 2" will be running change after Feb.2016.



#### 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.

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- (2) Transportation equipment (cars, electric trains, ships, etc.)
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- (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.

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