

Multilayer Low Pass Filter

For 1880-2025MHz

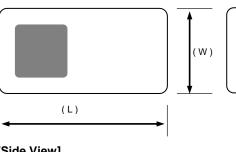
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: DEA162025LT-5046E1

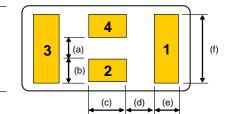
DEA162025LT-5046E1

SHAPES AND DIMENSIONS

[Top View]



[Bottom View]



[Side View]



Dimensions (mm)

Dimer	1310113							
L	W	Т	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)	Input / Output Port	
(2)	GND	

(3)	Output / Input Port
(4)	GND

TERMINATION FINISH

Material	
Au plate	

DEA162025LT-5046E1

ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Freque	nov	/MU-)	TI	DK Sp	ес
Farameter	Freque	псу		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	(Nomi	nal)

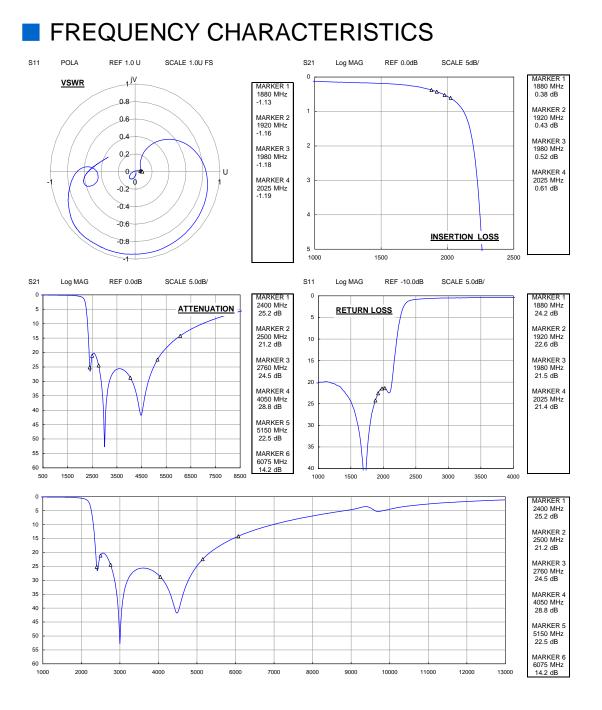
Ta = +25+/-5°C

MAXIMUM RATINGS

Parameter		TDK Spec		Conditions	
Farameter		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		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	

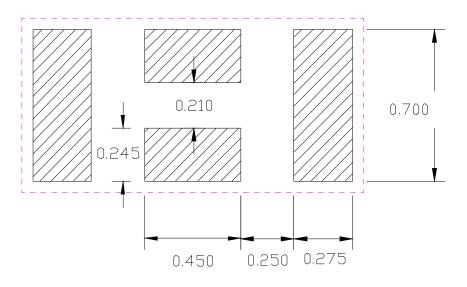
Ambient temperature : +25+/-5°C

DEA162025LT-5046E1

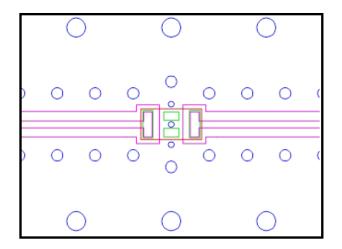


DEA162025LT-5046E1

RECOMMENDED LAND PATTERN



EVALUATION BOARD



\sum	Thru hole
	Resist
	Surface Pattern
	DUT (LPF)

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

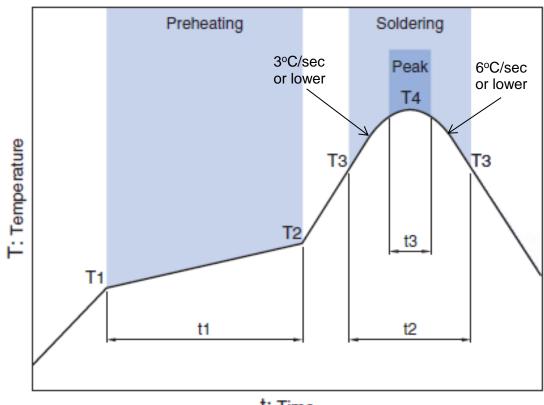
* Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

DEA162025LT-5046E1

RECOMMENDED REFLOW PROFILE



.	
	10000

Preheating			Soldering					
Freneating		Critical zon	e (T3 to T4)	Peak				
Ter	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)

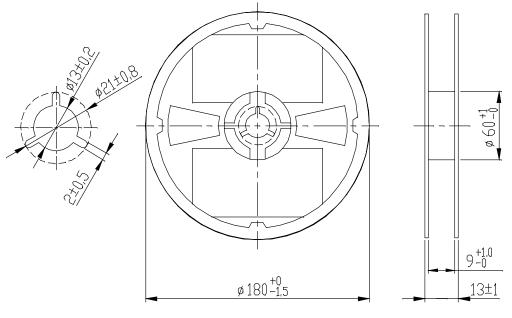
⊗TDK

Sep. 2018 Ver.6.0 TDK Corporation

DEA162025LT-5046E1

PACKAGING STYLE

Reel Dimensions



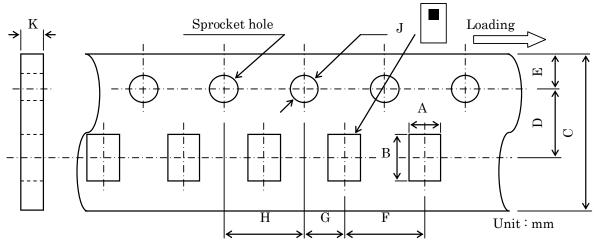
Dimensions in mm

STANDARD PACKAGE QUANTITY
(pieces/reel)
4,000

DEA162025LT-5046E1

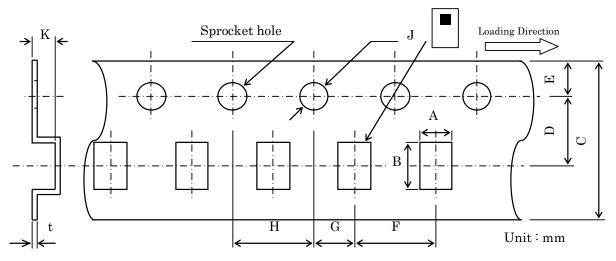
PACKAGING STYLE

Carrier tape 1, Material : paper



Dimer	Dimensions (mm)									
Α	В	С	D	E	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	E	F	G	Н	J	Κ	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

"Carrier tape 1" is currently adopted. "Carrier tape 2" will be running change after Feb.2016.

All specifications are subject to change without notice. Before using these products, be sure to request the delivery specifications.

⊗TDK

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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