SPECIFICATION SPEC. No. TFA7NAA00125 DATE: Jul 7th 2016

DATE: Jul.7th,2016

To

XIAMEN XIANGGAO ELECTRONICS CO.,LTD

CUSTOMER'S PRODUCT NAME DEA162025LT-5046C1

TDK'S PRODUCT NAME DEA162025LT-5046C1

RECEIPT CONFIRMATION

DATE: YEAR MONTH DAY

TDK Corporation Sales

Electronic Components Sales & Marketing Group

Engineering

Electronic Components Business Company Systems, Acoustics, Waves Business Group

Person in charge

APPROVED	CHECKED	Person in charge
N.Harada	M. Tsutsumi	M.Matsushima

Specification Change History

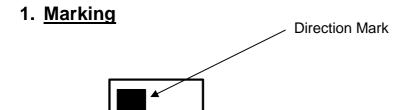
Customer's Product Name: DEA162025LT-5046C1

TDK Product Name: DEA162025LT-5046C1

Ver.	Date	Person in charge	Change Item
-	Jul.7th,2016	M.Matsushima	Initial issue

LOW PASS FILTER Specification

(TDK Part Number: DEA162025LT-5046C1)



2. Mechanical Outline

2-1 Package

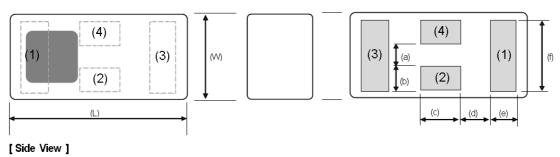
Package: Surface mount package

Delivery medium : Tape on reel Soldering method: IR-reflow

Size: 1.6 X 0.8 mm typ.

Height: 0.6 mm typ.







[Dimension (mm)]

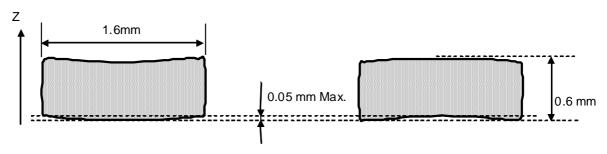
(L)	(W)	(T)	(a)	(b)	(c)	(d)	(e)	(f)
1.60	0.80	0.60	0.21	0.22	0.40	0.30	0.225	0.65
+/-0.10	+/-0.10	+/-0.10	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

[Pin Assignment]

(1)	(2)	(3)	(4)
IN/OUT	GND	OUT/IN	GND

2-2.Coplanarity

0.05 mm max. difference in Z-direction as follows



Each terminal extends the full of DEA162025LT-5046C1. Hence any co-planarity deviation between terminals is due to curvature in the substrate. TDK guarantees that the edge of each terminal is within 0.05 mm of the horizontal plane.

3. Environment (Temperature & Humidity)

3-1 Operating & Storage condition

Storage temperature range : $-40 \sim +85$ °C Operating temperature range : $-40 \sim +85$ °C

Humidity : $0 \sim 90 \% RH$ (Max. wet bulb temperature 38°C)

3-2 Storage condition before soldering

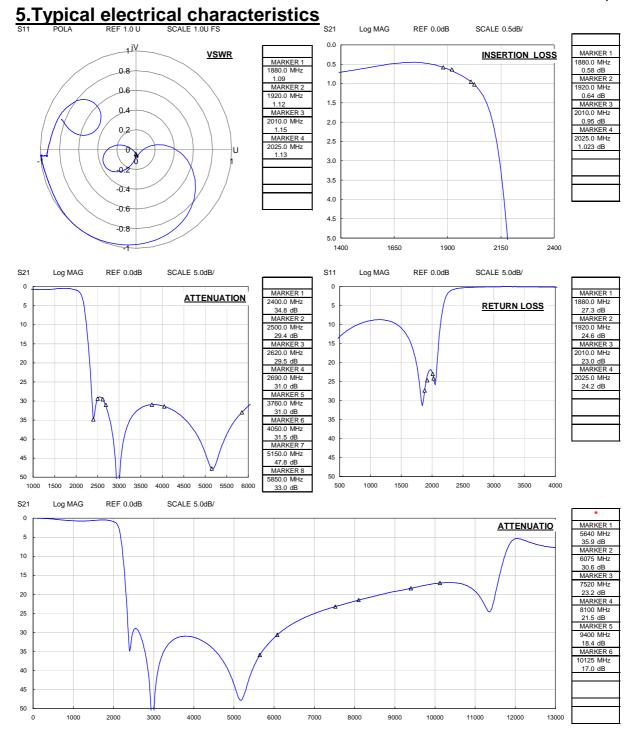
Temperature : $+5 \sim +30$ °C Humidity : $20 \sim 70$ % RH Term of storage : Within 6 months Baking : Unnecessary

4. Electrical Specification (Ta=+25°C)

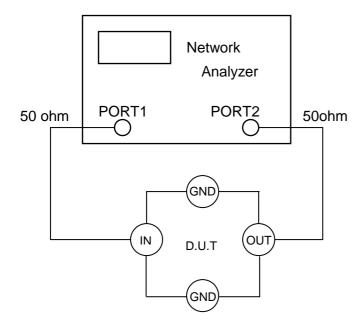
Damanatan	Band	Frequency	Specification		Sample	1.1:4
Parameter		[MHz]	Min	Max	Тур.	Unit
Insertion Loss (at 25°C)		1880 - 2025	-	1.35	1.0	dB
Insertion Loss (at -40 ~ +85 °C)	Pass Band (f1) B34 , 39	1880 - 2025	-	1.50	•	dB
VSWR (at -40 ~ +85 °C)	201,00	1880 - 2025	-	1.7	1.2	-
Attenuation (at -40 ~ +85 °C)	Wi-fi ISM(2.4G)	2400 - 2500	25	-	29	dB
	Wi-fi ISM(5G)	5150 - 5850	30	-	33	dB
	2x(f1)	3760 - 4050	27	-	31	dB
	3x(f1)	5640 - 6075	27	-	30	dB
	4x(f1)	7520 - 8100	17	-	21	dB
	5x(f1)	9400 - 10125	12		17	dB
Power Capacity			-	30	-	dBm

We recommend to terminate for all port with 50ohm at all times.

6/13 Jul.7th,2016 TDK Corporation



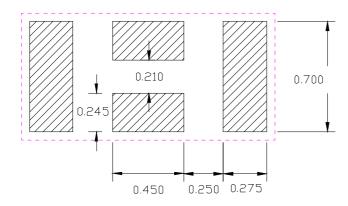
6.Measuring Conditions



Note 1: The Port Extension function on the Network Analyzer is used to extend the calibration plane to the DUT terminals.

Note 2: Loss in the PCB traces is compensated for by measurement data taken on a PCB Thru' line.

7.Land Pattern



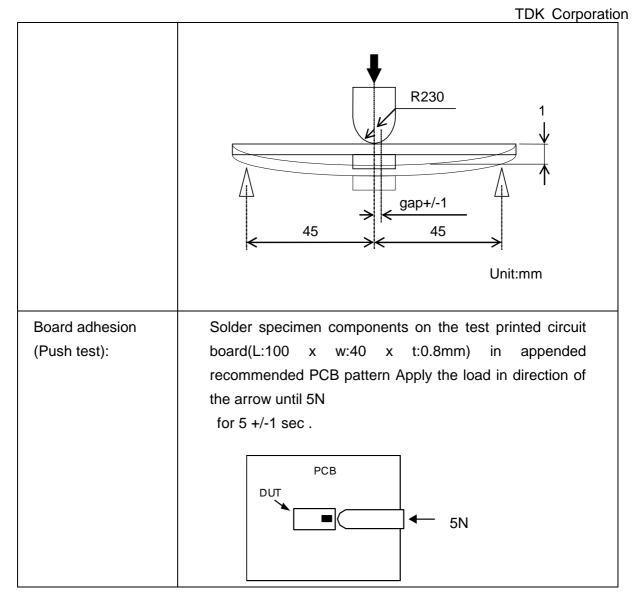
Unit: mm

8. Environmental and quality proposal

This product satisfies the electrical specification after the following tests. (When measured after two hours in normal conditions)

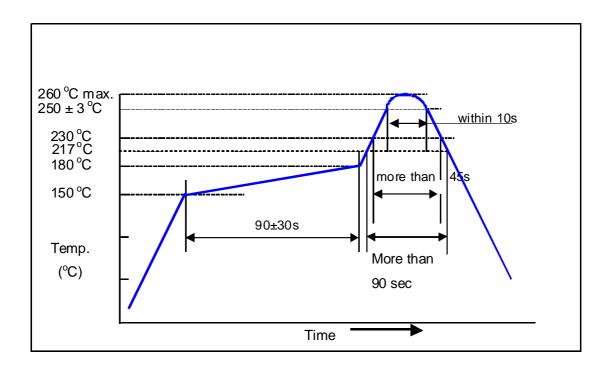
Tomporoturo	All data initially taken at 125% then repeated at 10%
Temperature	All data initially taken at +25℃, then repeated at -40℃
characteristics:	and again at +85℃.
Heat proof:	+85 ℃+/-2 ℃ for 1000 hours
Cold proof:	-40 ℃ +/-2 ℃ or 500 hours
Moisture proof:	+60 ℃ +/-2 ℃, 90 ~95% R.H. for 1000 hours
Heat aboats	-40 ~ +85 ℃ for 350 cycles
Heat shock:	each cycle being 30 min
	10-500Hz vibration frequency (10G Max.)
Vibration:	with 1.52mmp-p amplitude for two hours in x,y,z
	directions
Mechanical shock:	1.Acceleration 1000m/s2 2.Direction X, Y, Z, X', Y', Z', axes 3.Time 6ms duration and 3 times in each direction
Solderability	The dipped surface of the terminal shall be at least 75% covered with solder after dipped in solder bath of 245 °C+/-3 °C for 3+/-0.5 sec. Remark solder: Sn-3.0Ag-0.5Cu Remark flux: Rosin 25%, Alcohol 75%
Solder heat shock:	It shall be possible to hot air reflow the components twice with a temperature profile shown below.
Drop shock:	Dropped onto steel plate or concrete from 100cm height three times .
Bending test:	Solder specimen components on the test printed circuit board(L:100 x w:40 x t:0.8mm) in appended recommended PCB pattern Apply the load in direction of the arrow until bending reaches 1mm for 5+/-1 sec.

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9. Recommended reflowing temperature profile

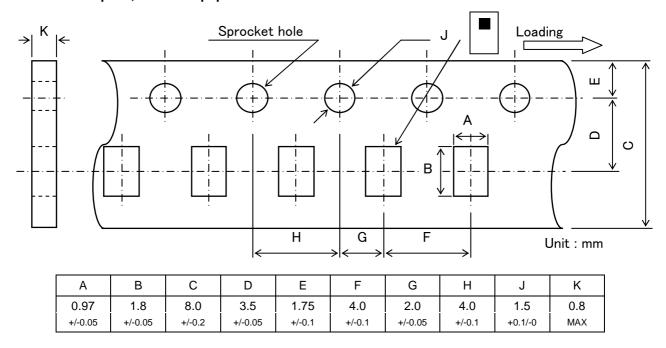
Pb free solder



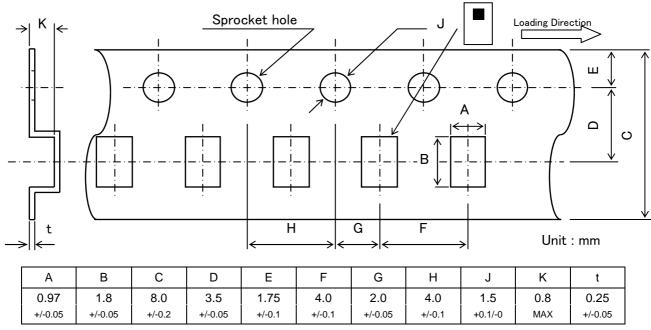
10. Packing

10-1 Carrier tape

Carrier tape 1, Material: paper

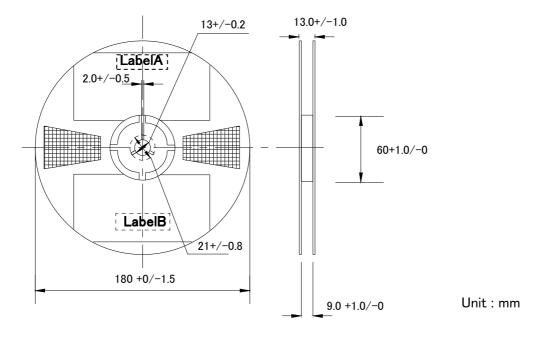


Carrier tape 2, Material: PS



[&]quot;Carrier tape 1" is currently adopted. "Carrier tape 2" will be running change after Feb.2016..

10-2. Reel Dimensions



10-3. Standard Reel Packaging quantities

4000pcs./reel

11. Other

11-1 Notice

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.

Aerospace/Aviation equipment

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

Medical equipment

Power-generation control equipment

Atomic energy-related equipment

Seabed equipment

Transportation control equipment

Public information-processing equipment

Military equipment

Electric heating apparatus, burning equipment

Disaster prevention/crime prevention equipment

Safety equipment

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.

11-2 Product Origin

- 1. TDK-UGO Corporation, Akita, Japan
- 2. TDK Dalian Corporation, Dalian , China

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