



Oct. 2016 Ver.1.0  
TDK Corporation

Multilayer High Pass Filter

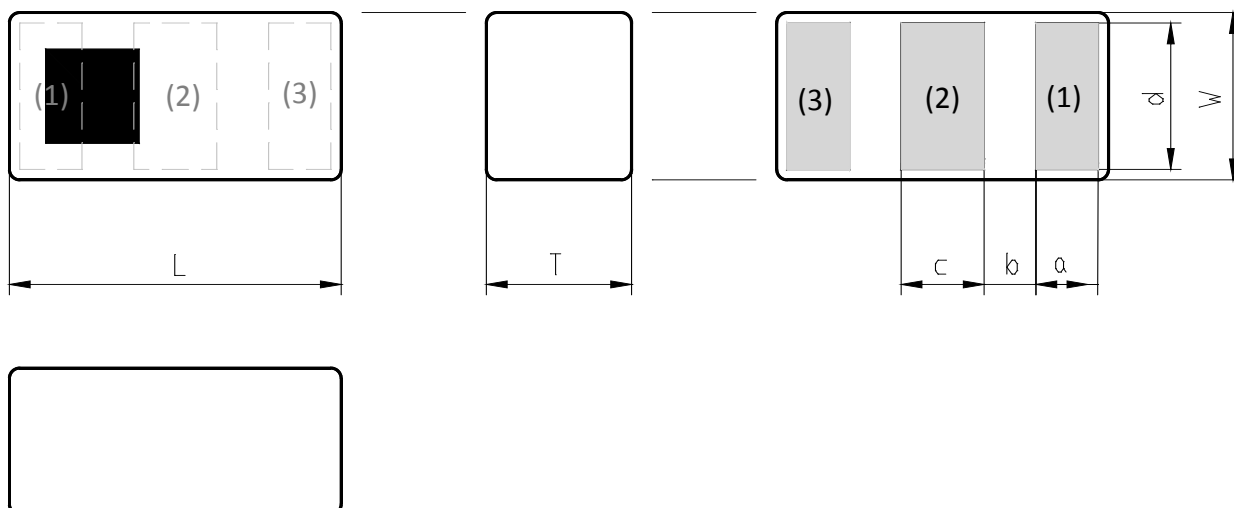
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA162300HT-8047A1**

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## DEA162300HT-8047A1

### ■ SHAPES AND DIMENSIONS



Dimensions (mm)

| L       | W       | T    | a       | b       | c       | d       |
|---------|---------|------|---------|---------|---------|---------|
| 1.60    | 0.80    | 0.65 | 0.30    | 0.25    | 0.40    | 0.70    |
| +/-0.10 | +/-0.10 | Max  | +/-0.10 | +/-0.10 | +/-0.10 | +/-0.10 |

Terminal functions

|     |             |
|-----|-------------|
| (1) | Input Port  |
| (2) | GND         |
| (3) | Output Port |

### ■ TEMPERATURE RANGE

| Operating temperature | Storage temperature |
|-----------------------|---------------------|
| -40 to +85 °C         | -40 to +85 °C       |

### ■ TERMINATION FINISH

| Material |
|----------|
| Au plate |

All specifications are subject to change without notice.

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## DEA162300HT-8047A1

### ■ ELECTRICAL CHARACTERISTICS

( Measurement )

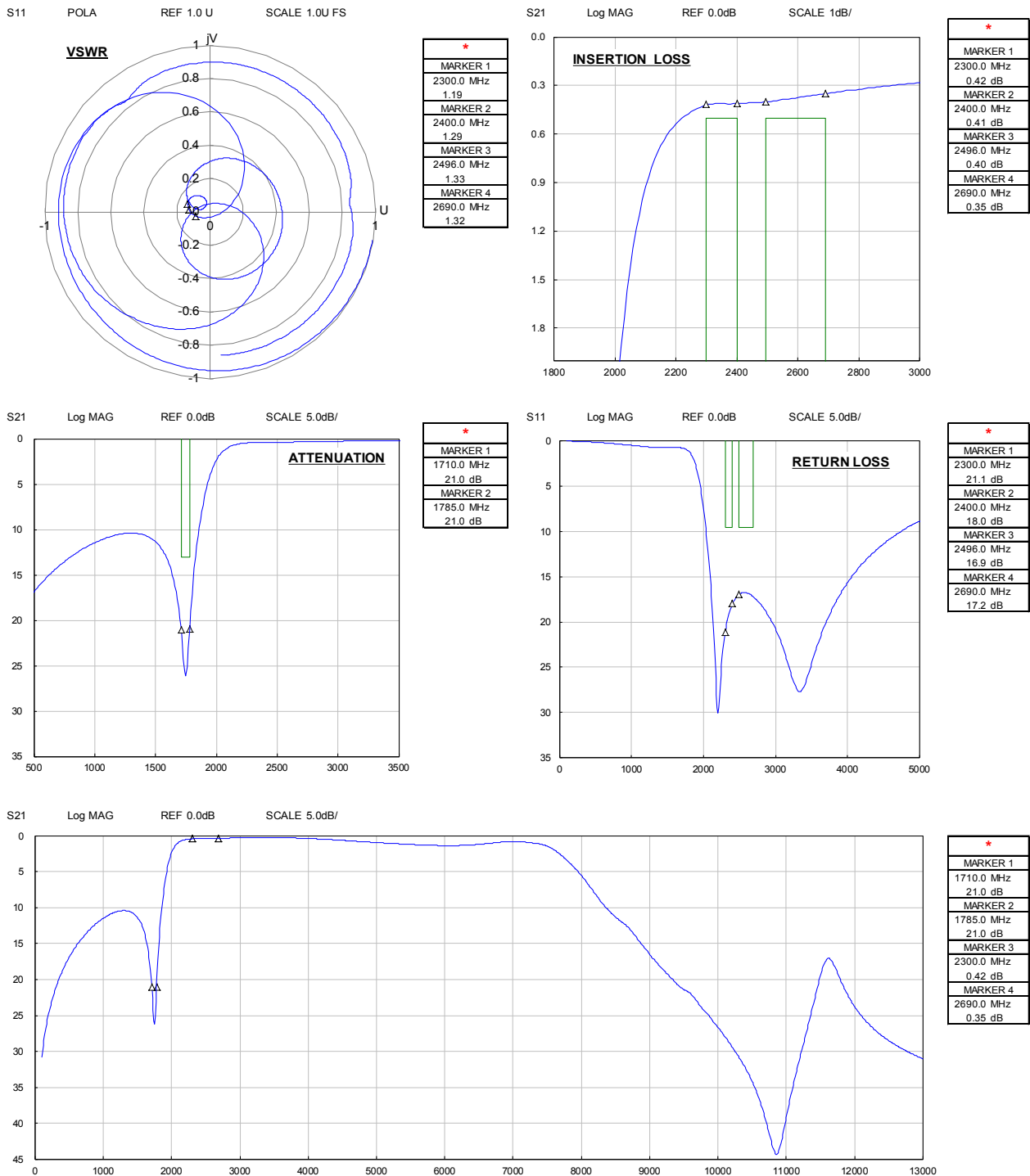
| Parameter                                | Frequency (MHz) | TDK Spec     |      |      |
|------------------------------------------|-----------------|--------------|------|------|
|                                          |                 | Min.         | Typ. | Max. |
| Insertion Loss (dB)                      | 2300 to 2400    | -            | 0.42 | 0.50 |
|                                          | 2496 to 2690    | -            | 0.40 | 0.50 |
|                                          |                 |              |      |      |
| Insertion Loss (dB)<br>( -40 to +85 °C ) | 2300 to 2400    | -            |      | 0.70 |
|                                          | 2496 to 2690    | -            |      | 0.70 |
|                                          |                 |              |      |      |
| VSWR                                     | 2300 to 2400    | -            | 1.29 | 2.00 |
|                                          | 2496 to 2690    | -            | 1.33 | 2.00 |
|                                          |                 |              |      |      |
| Attenuation (dB)                         | 1710 to 1785    | 13           | 21   | -    |
|                                          |                 |              |      |      |
| Characteristic Impedance (ohm)           |                 | 50 (Nominal) |      |      |

Ta = +25+/-5°C

Oct. 2016 Ver.1.0  
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## DEA162300HT-8047A1

### FREQUENCY CHARACTERISTICS



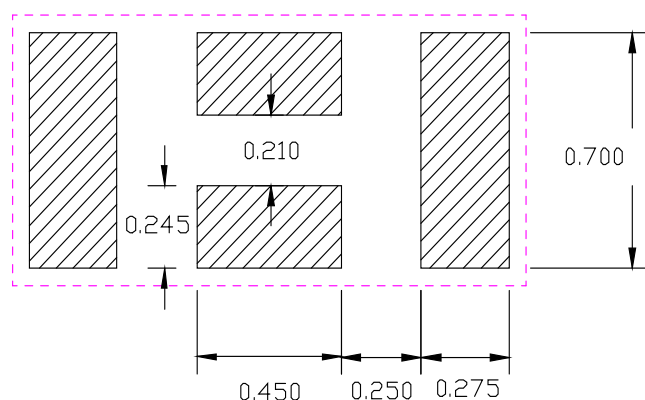
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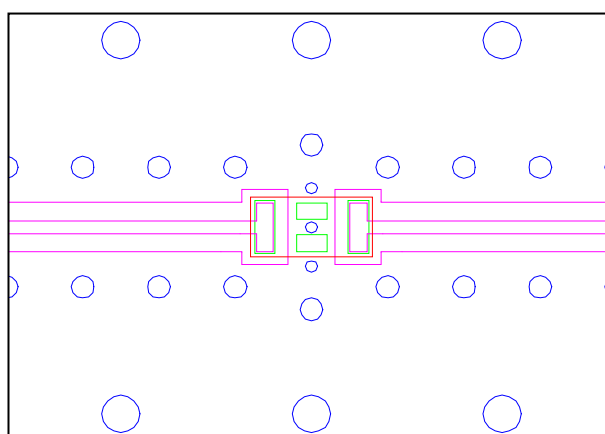
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## DEA162300HT-8047A1

### RECOMMENDED LAND PATTERN



### EVALUATION BOARD



- Thru hole
- Resist
- Surface Pattern
- DUT

| 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   |

### ENVIRONMENT INFORMATION

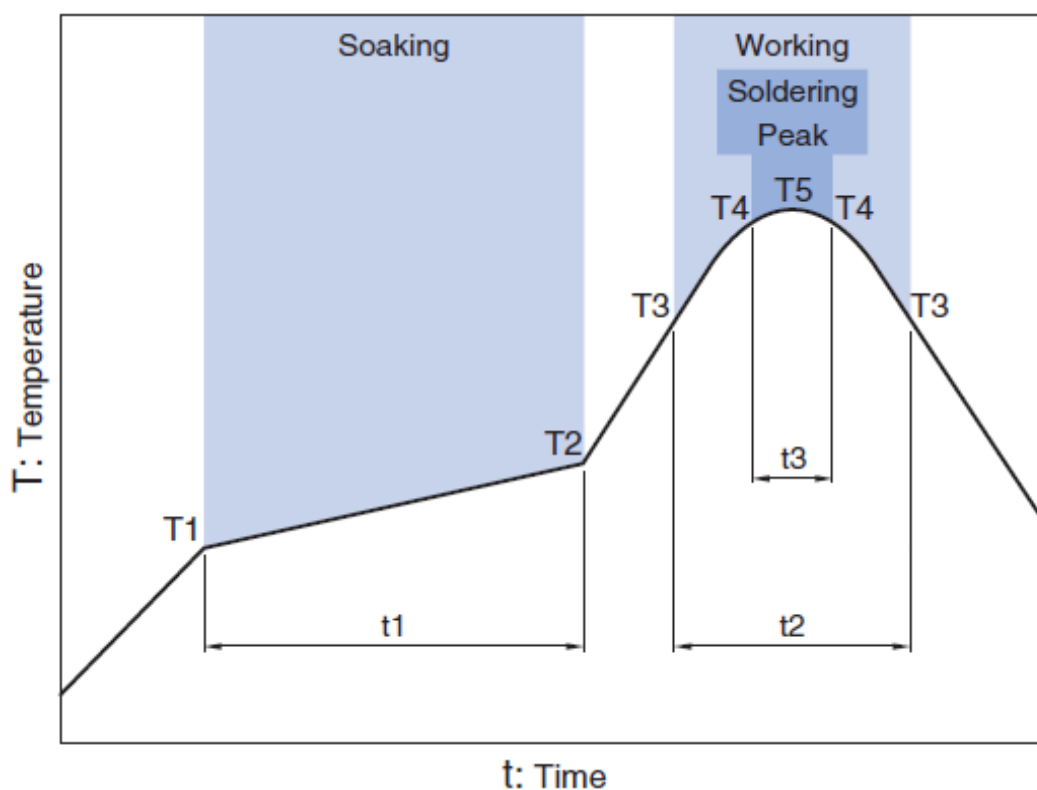
RoHS Statement  
RoHS Compliance

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## DEA162300HT-8047A1

### ■ RECOMMENDED REFLOW PROFILE

Pb free solder



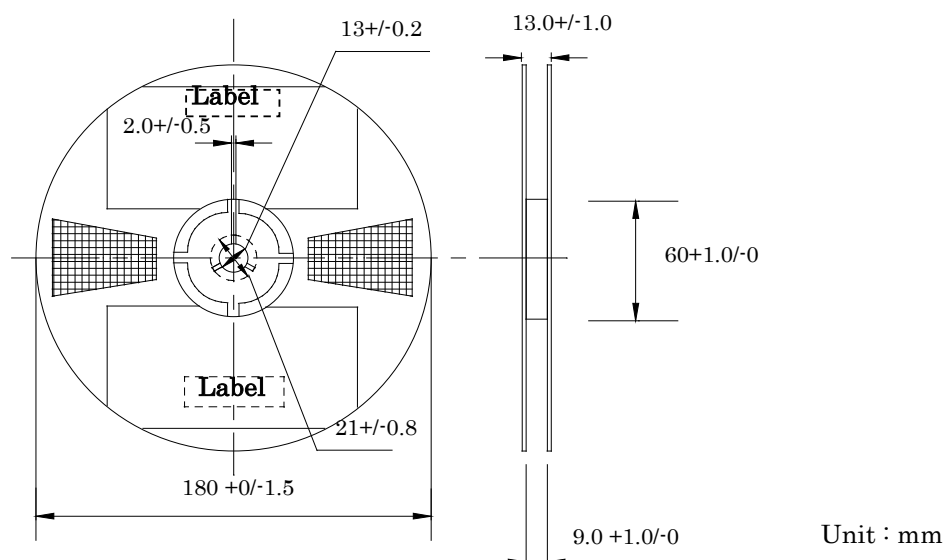
| Soaking |       |              | Working |                 | Soldering    |              | Peak       |
|---------|-------|--------------|---------|-----------------|--------------|--------------|------------|
| Temp.   |       | Time         | Temp.   | Time            | Temp.        | Time         | Temp.      |
| T1      | T2    | t1           | T3      | 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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**DEA162300HT-8047A1**

## Reel Dimensions



Carrier Tape

Sprocket hole

J

Loading Direction

Dimensions: K, t, H, G, F, A, B, C, D, E

Labels: A, B, C, D, E, F, G, H, J, K, t

The diagram illustrates a carrier tape with a series of sprocket holes and components. The tape has a thickness  $t$  and a width  $K$ . The sprocket holes are spaced at intervals  $H$ ,  $G$ , and  $F$ . The components are rectangular, with dimensions  $A$  and  $B$  for the individual component and  $C$  and  $D$  for the overall tape width. The loading direction is indicated by an arrow pointing to the right. A small black square is shown in the top right corner, and a label  $J$  points to a specific feature on the tape.

| A       | B       | C      | D       | E      | F      | G       | H      | J       | K   | t       |
|---------|---------|--------|---------|--------|--------|---------|--------|---------|-----|---------|
| 0.97    | 1.8     | 8.0    | 3.5     | 1.75   | 4.0    | 2.0     | 4.0    | 1.5     | 0.8 | 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<br>( pieces/reel ) |
|----------------------------------------------|
| 4,000                                        |

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## 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.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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