



July. 2016 Ver.2.0  
TDK Corporation

## Multilayer Low Pass Filter

For 2400-2500MHz

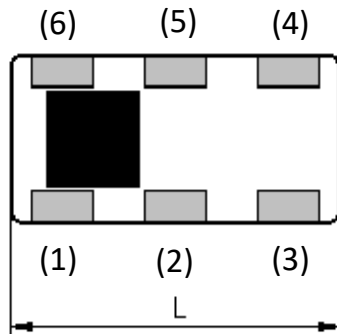
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA162500LT-5033F1**

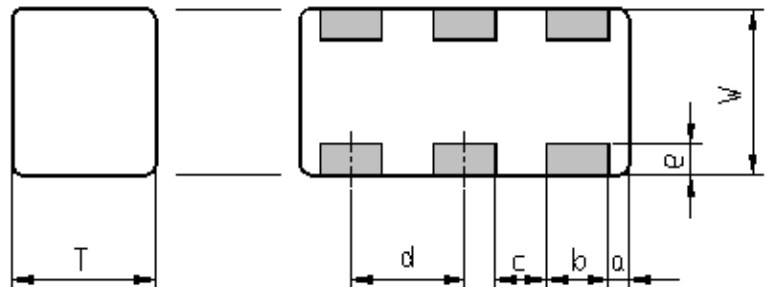
## DEA162500LT-5033F1

### ■ SHAPES AND DIMENSIONS

[Top View]



[Bottom View]



Dimensions (mm)

| L       | W       | T       | a       | b       | c       | d       | e       |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.60    | 0.80    | 0.60    | 0.10    | 0.30    | 0.25    | 0.55    | 0.15    |
| +/-0.10 | +/-0.10 | +/-0.10 | +/-0.10 | +/-0.10 | +/-0.10 | +/-0.10 | +/-0.10 |

Terminal functions

|     |             |
|-----|-------------|
| (1) | GND         |
| (2) | Input Port  |
| (3) | GND         |
| (4) | GND         |
| (5) | Output Port |

|     |     |
|-----|-----|
| (6) | GND |
|-----|-----|

### ■ TEMPERATURE RANGE

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

## DEA162500LT-5033F1

### ■ ELECTRICAL CHARACTERISTICS

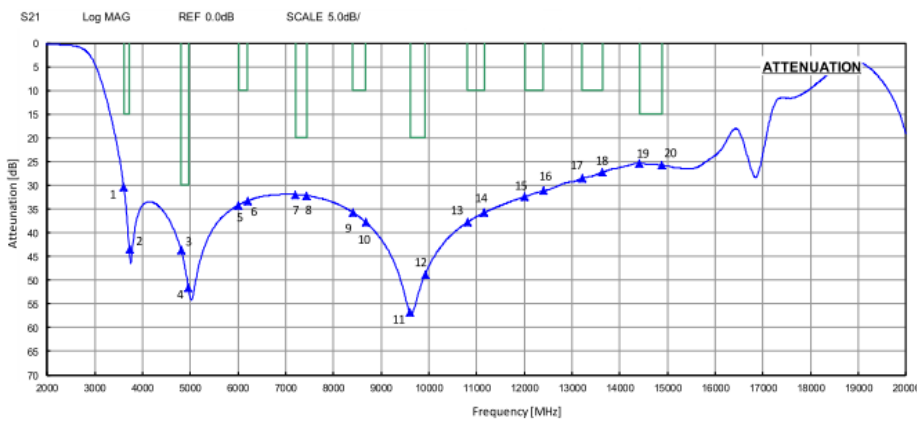
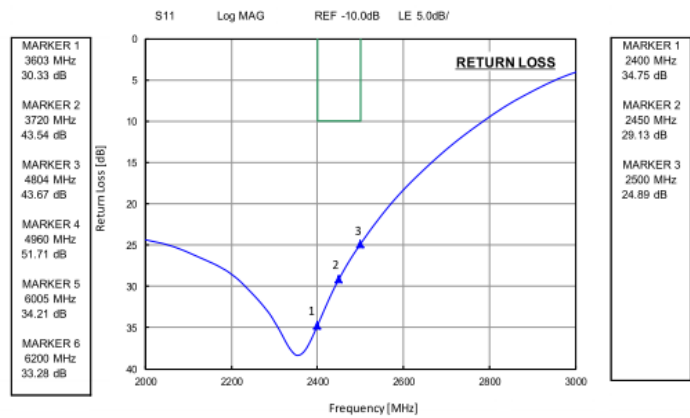
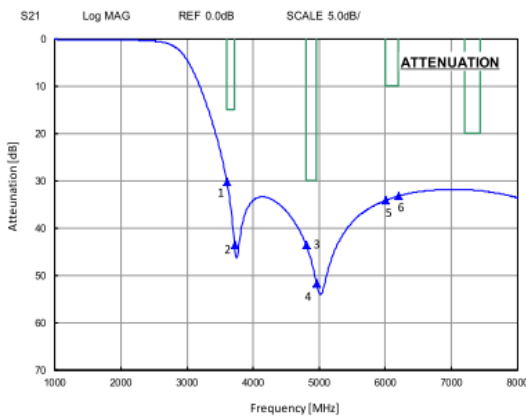
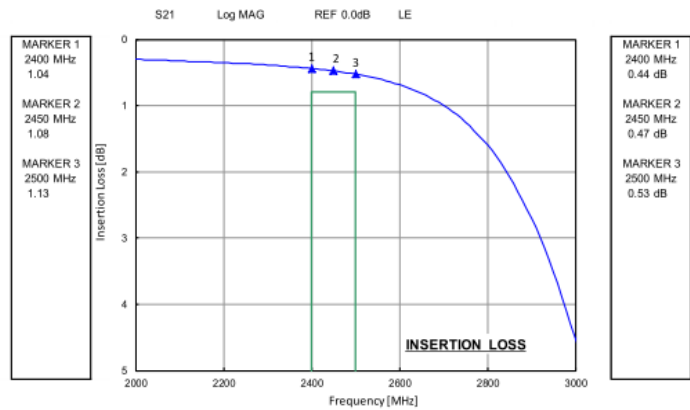
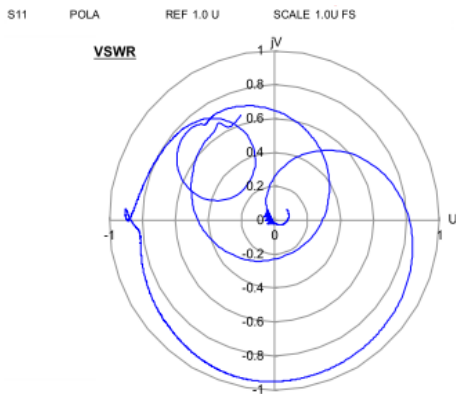
( Measurement )

| Parameter                      | Frequency (MHz) | TDK Spec     |      |      |
|--------------------------------|-----------------|--------------|------|------|
|                                |                 | Min.         | Typ. | Max. |
| Insertion Loss (dB)            | 2400 to 2500    | -            | 0.53 | 0.80 |
|                                |                 | -            |      |      |
| VSWR                           | 2400 to 2500    | -            | 1.13 | 2.0  |
|                                |                 | -            |      |      |
| Attenuation (dB)               | 3603 to 3720    | 15           | 30   | -    |
|                                | 4804 to 4960    | 30           | 43   | -    |
|                                | 6005 to 6200    | 10           | 33   | -    |
|                                | 7206 to 7440    | 20           | 31   | -    |
|                                | 8407 to 8680    | 10           | 35   | -    |
|                                | 9608 to 9920    | 20           | 48   | -    |
|                                | 10809 to 11160  | 10           | 35   | -    |
|                                | 12010 to 12400  | 10           | 31   | -    |
|                                | 13211 to 13640  | 10           | 27   | -    |
| 14412 to 14880                 | 15              | 25           | -    |      |
| Characteristic Impedance (ohm) |                 | 50 (Nominal) |      |      |

 $T_a = +25 \pm 5^\circ\text{C}$

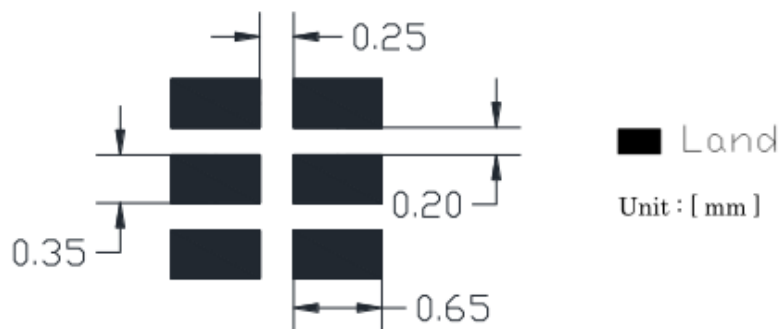
# DEA162500LT-5033F1

## FREQUENCY CHARACTERISTICS



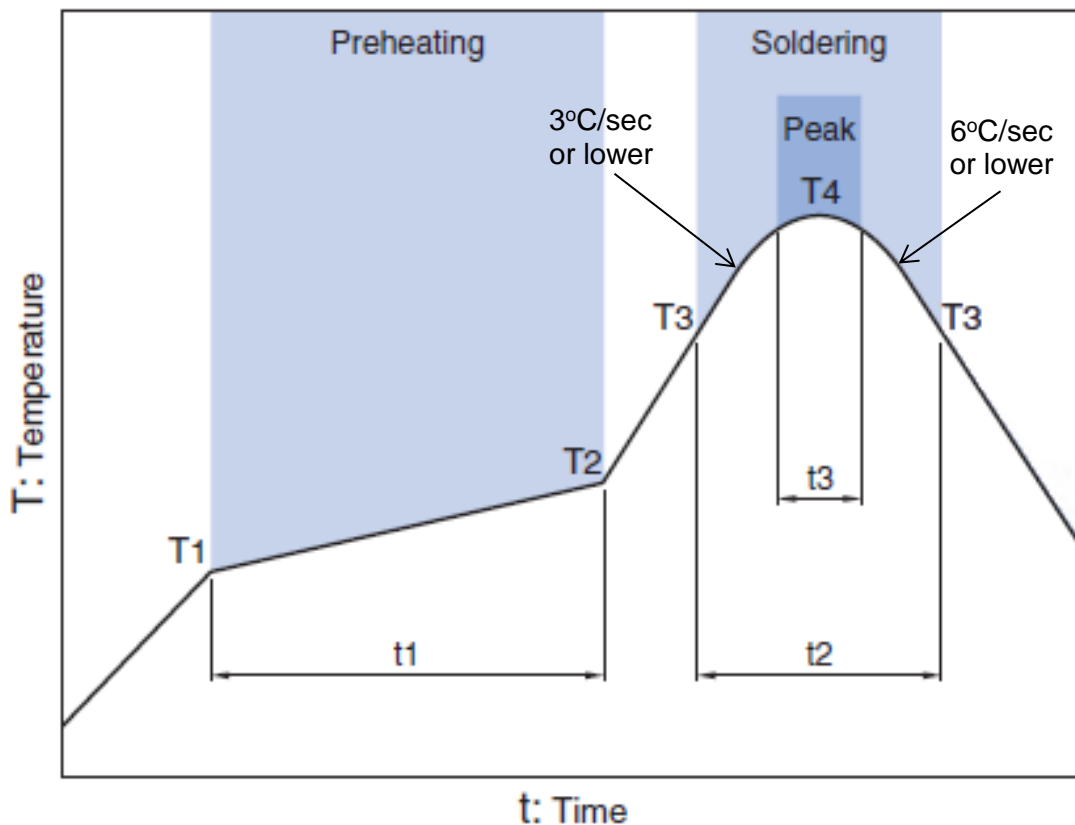
## DEA162500LT-5033F1

### ■ RECOMMENDED LAND PATTERN



### ■ ENVIRONMENT INFORMATION

RoHS Statement  
RoHS Compliance

**DEA162500LT-5033F1****RECOMMENDED REFLOW PROFILE**

| Preheating |       |              | Soldering                |              |              |            |
|------------|-------|--------------|--------------------------|--------------|--------------|------------|
| Temp.      |       | Time         | Critical zone (T3 to T4) |              | Peak         |            |
| 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)

## 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                                  | (8) Public information-processing equipment                                  |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment   |
| (3) Medical equipment   | (10) Electric heating apparatus, burning equipment                           |
| (4) Power-generation control equipment                            | (11) Disaster prevention/crime prevention equipment                          |
| (5) Atomic energy-related equipment                               | (12) Safety equipment  |
| (6) Seabed equipment  | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment                              |  |

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.