



# Electric Double Layer Capacitor

(EDLC/Super Capacitor)

# EDLC302520 series

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EDLC302520-501-2F-11

500mF

## **Caution**

Product in this catalog is in preparation for mass production.

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# Electric Double Layer Capacitor (EDLC/Super Capacitor)

## Overview of EDLC302520 series

### FEATURES

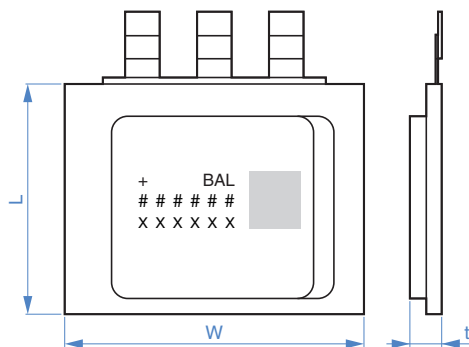
- High capacitance and low impedance.
- Thin small size.
- Long-life.
- Clean materials.
- Safety.

### APPLICATION

- Battery assistance
- Storage element of energy harvesting
- Strong LED flash
- Backup application for instantaneous power failures

### PART NUMBER CONSTRUCTION

|             |                        |                    |  |   |                    |   |                              |   |           |
|-------------|------------------------|--------------------|--|---|--------------------|---|------------------------------|---|-----------|
| EDLC        | 30                     | 25                 | 20   | - | 501                | - | 2F                           | - | 11        |
| Series name | Thickness dimensions t | Width dimensions W | Vertical dimensions L<br>(Not including the lead length) |   | Data capacity (mF) |   | Number of series and voltage |   | Impedance |
|             |                        |                    |  |   | 501   500          |   |                              |   |           |



RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/info/en/environment/rohs/index.html>

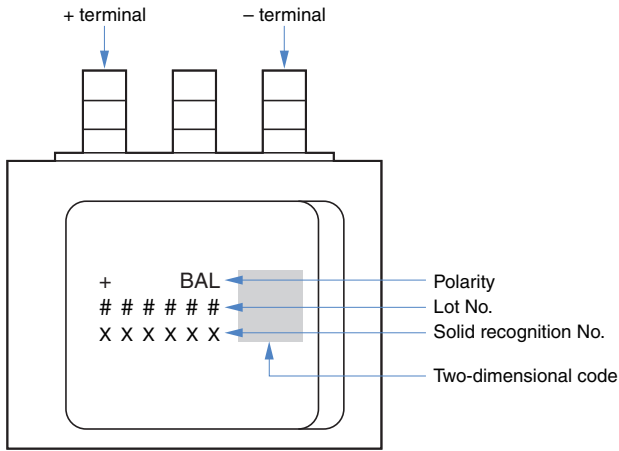
⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

# CAPACITORS

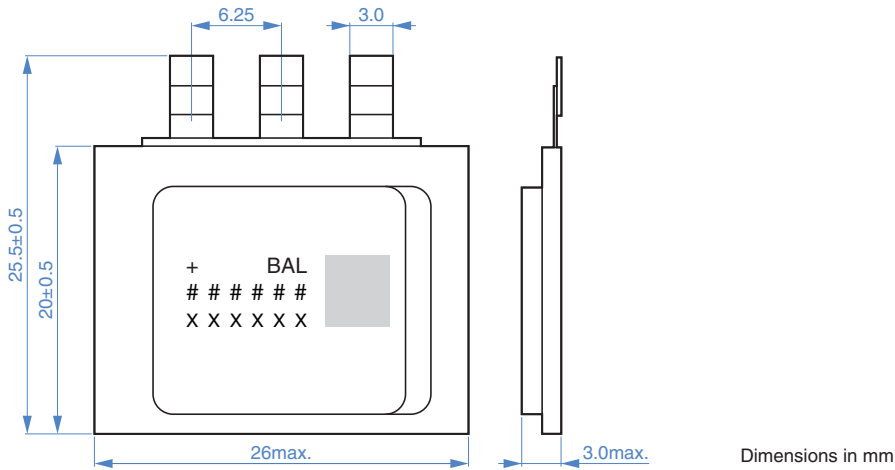


## EDLC302520 series

### ■ PRODUCT INDICATION



### ■ SHAPE & DIMENSIONS



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# CAPACITORS



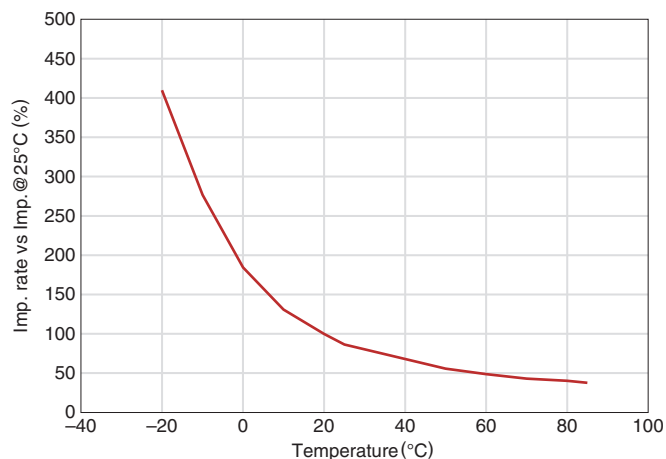
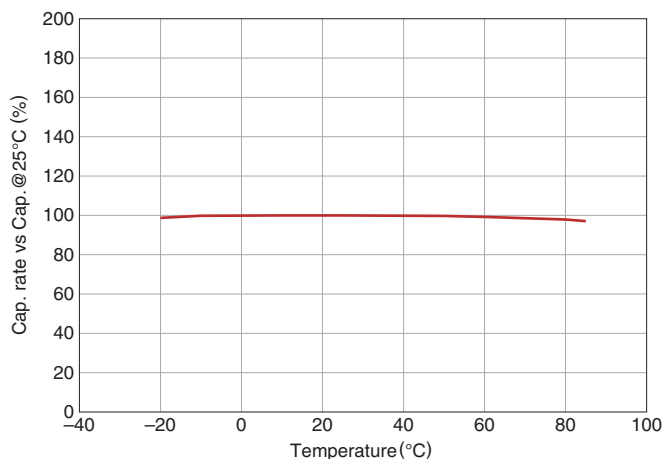
## EDLC302520 series

### ■ ELECTRICAL CHARACTERISTICS

#### □ CHARACTERISTICS SPECIFICATION TABLES

| Part No.             | Nominal capacitance<br>(mF)typ. | Nominal Impedance<br>[AC 1kHz]<br>(mΩ)typ. | Operating voltage<br>continuous<br>(V) | peak<br>(V) |
|----------------------|---------------------------------|--|--|-------------|
| EDLC302520-501-2F-11 | 500                             | 95   | 4.2                                    | 5.5         |

#### □ EXAMPLE OF THERMAL CHARACTERISTICS



- The graph of THERMAL CHARACTERISTICS mentioned above shows the typical behavior of the product, and does not show the guarantee values.
- It is a value for standard temperature 25°C.

### ■ TEMPERATURE RANGE

| Part No.             | Temperature range             |                             |
|----------------------|-------------------------------|-----------------------------|
|                      | Operating temperature<br>(°C) | Storage temperature<br>(°C) |
| EDLC302520-501-2F-11 | -20 to +85°C                  | -40 to +85°C                |