

# DSK-414

## ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

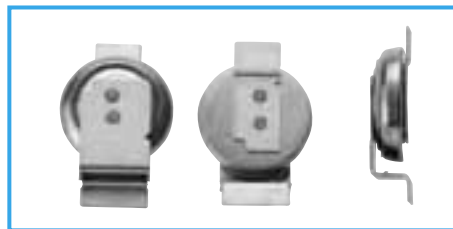
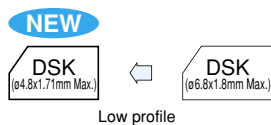
ELNA®

ø4.8 x 1.71mm Max. height Coin Cell Capacitors

GREEN CAP

70°C

- Reflow soldering method available.
- Unlike batteries, the number of charging/ discharging cycles unlimited and rapid charging/ discharging is possible.
- High reliability, Safe and unlike secondary batteries, this is pollution free devices.
- ø4.8 x 1.71mm Max height type made lineup in the DSK series.

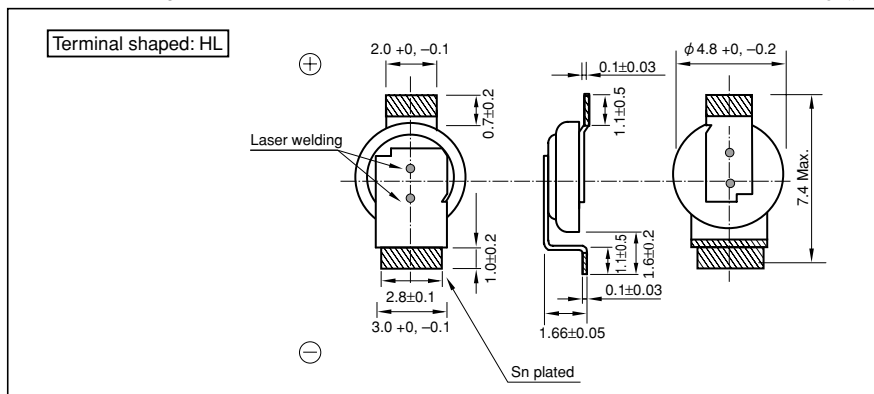


### Specifications

| Item                                        | Performance                               |                                              |
|---------------------------------------------|-------------------------------------------|----------------------------------------------|
| Series Name                                 | DSK series                                |                                              |
| Rated voltage (V)                           | 3.3                                       |                                              |
| Category temperature range (°C)             | -10 to +70                                |                                              |
| Tolerance at rated capacitance (%)          | -20 to +80                                |                                              |
| Rated Capacitance (F)                       | 0.07                                      |                                              |
| Internal resistance(Ω) at 1 kHz             | 100                                       |                                              |
| Characteristics at high and low temperature | Percentage of capacitance change          | Within ±50% of the value at 20°C             |
|                                             | Internal resistance                       | Within ten times the initial specified value |
| Endurance                                   | Test temperature                          | 70°C                                         |
|                                             | Test time                                 | 500 hours                                    |
|                                             | Percentage of capacitance change          | Within ±30% of the initial measured value    |
|                                             | Internal resistance                       | 1.5kΩ or less                                |
| Shelf life                                  | Test time :500 hours ; Same as endurance. |                                              |

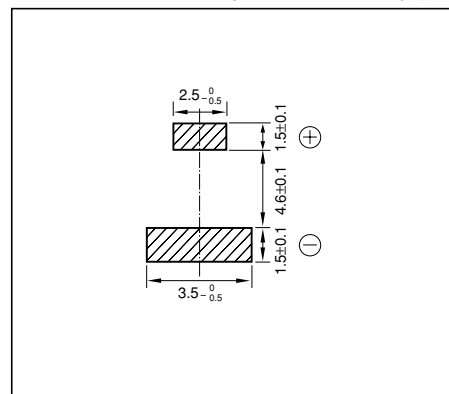
### Outline Drawing

Unit: mm



### Recommended land pattern size

Unit: mm



### Part numbering system (3.3V0.07F, terminal shaped: HL)

|             |   |                      |                          |                   |      |   |                 |        |
|-------------|---|----------------------|--------------------------|-------------------|------|---|-----------------|--------|
| DSK         | — | 3R3                  | H                        | 703               | T414 | — | HL              | L      |
| Series code |   | Rated voltage symbol | Rated capacitance symbol | Additional symbol |      |   | Terminal shaped | Taping |

### Standard Ratings

| Max. operating voltage(V) | Rated capacitance(F) | ELNA Parts No.      | ø DxL(mm) |
|---------------------------|----------------------|---------------------|-----------|
| 3.3                       | 0.07                 | DSK-3R3H703T414-HLL | 4.8x1.4   |

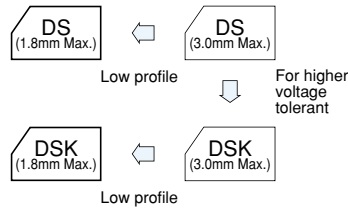
\* Reflow soldering condition : 146 page.

## 1.8mm Max. height Coin Cell Capacitors

GREEN  
CAP

60°C  
70°C

- Reflow soldering method available.
- Unlike batteries, the number of charging/ discharging cycles unlimited and rapid charging/ discharging is possible.
- High reliability, Safe and unlike secondary batteries, this is pollution free devices.
- 1.8mm height type made lineup in the DS, DSK series.

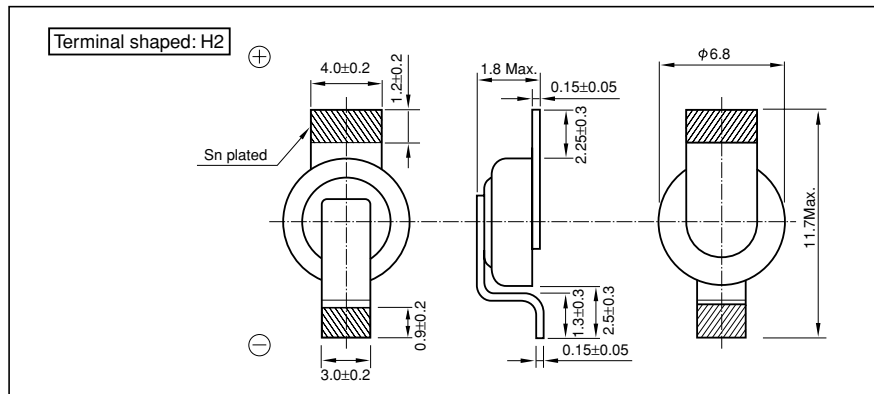


### Specifications

| Item                                        | Performance                                |                                           |                                  |                                              |
|---------------------------------------------|--------------------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------|
| Series Name                                 | DS series                                  |                                           | DSK series                       |                                              |
| Rated voltage (V)                           | 2.5                                        |                                           | 3.3                              |                                              |
| Category temperature range (°C)             | -25 to +70                                 |                                           | -10 to +60                       |                                              |
| Tolerance at rated capacitance (%)          | -20 to +80                                 |                                           | -20 to +80                       |                                              |
| Rated Capacitance (F)                       | 0.2                                        |                                           | 0.2                              |                                              |
| Internal resistance(Ω) at 1 kHz             | 100                                        |                                           | 200                              |                                              |
| Characteristics at high and low temperature | Percentage of capacitance change           | Within ±30% of the value at 20°C          | Percentage of capacitance change | Within ±50% of the value at 20°C             |
|                                             | Internal resistance                        | Less than five times of the value at 20°C | Internal resistance              | Within ten times the initial specified value |
| Endurance                                   | Test temperature                           | 70°C                                      | Test temperature                 | 60°C                                         |
|                                             | Test time                                  | 1000 hours                                | Test time                        | 1000 hours                                   |
|                                             | Percentage of capacitance change           | Within ±30% of the initial measured value | Percentage of capacitance change | Within ±30% of the initial measured value    |
|                                             | Internal resistance                        | 2kΩ or less                               | Internal resistance              | 4kΩ or less                                  |
| Shelf life                                  | Test time :1000 hours ; Same as endurance. |                                           |                                  |                                              |

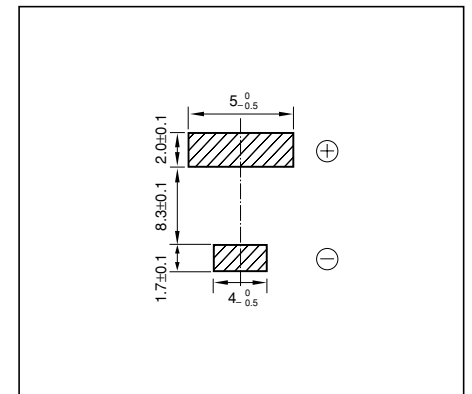
### Outline Drawing

Unit: mm



### Recommended land pattern size

Unit: mm



### Part numbering system (2.5V0.2F, terminal shaped: H2)

|             |   |                      |   |                          |                   |   |                 |        |
|-------------|---|----------------------|---|--------------------------|-------------------|---|-----------------|--------|
| DS          | — | 2R5                  | H | 204                      | T614              | — | H2              | L      |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Additional symbol |   | Terminal shaped | Taping |

### Part numbering system (3.3V0.2F, terminal shaped: H2)

|             |   |                      |   |                          |                   |   |                 |        |
|-------------|---|----------------------|---|--------------------------|-------------------|---|-----------------|--------|
| DSK         | — | 3R3                  | H | 204                      | T614              | — | H2              | L      |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Additional symbol |   | Terminal shaped | Taping |

### Standard Ratings

| Max. operating voltage(V) | Rated capacitance(F) | ELNA Parts No.      | φ DxL(mm) |
|---------------------------|----------------------|---------------------|-----------|
| 2.5                       | 0.2                  | DS-2R5H204T614-H2L  | 6.8x1.4   |
| 3.3                       | 0.2                  | DSK-3R3H204T614-H2L | 6.8x1.4   |

\* Reflow soldering condition : 146 page.

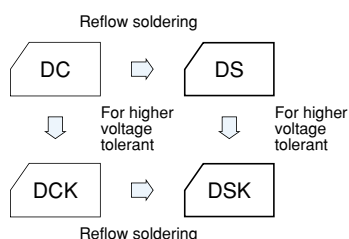
### NOTE

Design, Specifications are subject to change without notice.  
Ask factory for technical specifications before purchase and/or use.

### Coin Cell Capacitors

GREEN CAP 60°C / 70°C

- Reflow soldering method available.
- Unlike batteries, the number of charging/ discharging cycles unlimited and rapid charging/ discharging is possible.
- High reliability, Safe and unlike secondary batteries, this is pollution free devices.

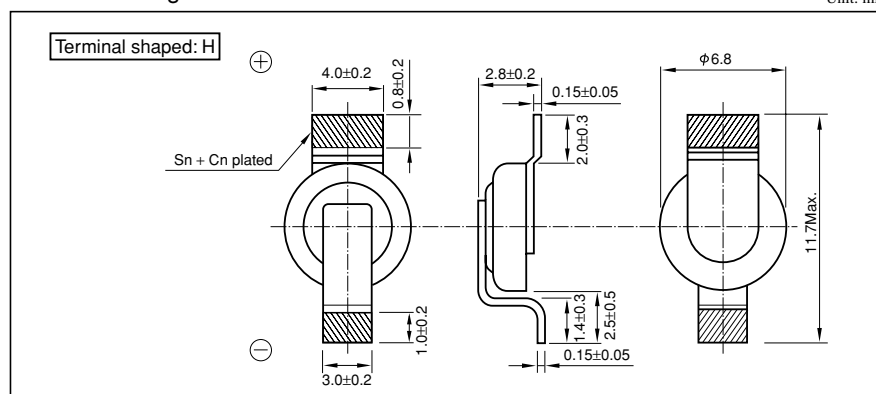


### Specifications

| Item                                        | Performance                                |                                                  |                                  |                                                  |
|---------------------------------------------|--------------------------------------------|--------------------------------------------------|----------------------------------|--------------------------------------------------|
| Series Name                                 | DS series                                  |                                                  | DSK series                       |                                                  |
| Rated voltage (V)                           | 2.5                                        |                                                  | 3.3                              |                                                  |
| Category temperature range (°C)             | -25 to +70                                 |                                                  | -10 to +60                       |                                                  |
| Tolerance at rated capacitance (%)          | -20 to +80                                 |                                                  | -20 to +80                       |                                                  |
| Rated Capacitance (F)                       | 0.22                                       |                                                  | 0.22                             |                                                  |
| Internal resistance(Ω) at 1 kHz             | 100                                        |                                                  | 200                              |                                                  |
| Characteristics at high and low temperature | Percentage of capacitance change           | Within ±30% of the value at 20°C                 | Percentage of capacitance change | Within ±50% of the value at 20°C                 |
|                                             | Internal resistance                        | Less than five times of the value at 20°C        | Internal resistance              | Within five times the initial specified value    |
| Endurance                                   | Test temperature                           | 70°C                                             | Test temperature                 | 60°C                                             |
|                                             | Test time                                  | 1000 hours                                       | Test time                        | 1000 hours                                       |
|                                             | Percentage of capacitance change           | Within ±30% of the initial measured value        | Percentage of capacitance change | Within ±30% of the initial measured value        |
|                                             | Internal resistance                        | Within four times of the initial specified value | Internal resistance              | Within four times of the initial specified value |
|                                             |                                            |                                                  |                                  |                                                  |
| Shelf life                                  | Test time :1000 hours ; Same as endurance. |                                                  |                                  |                                                  |

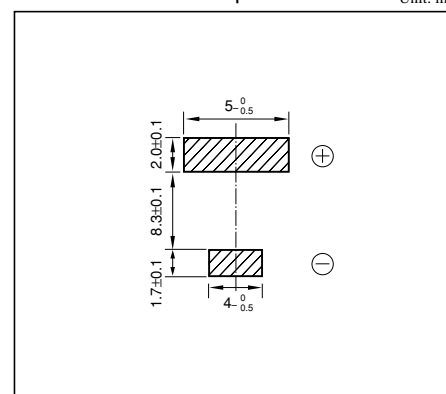
### Outline Drawing

Unit: mm



### Recommended land pattern size

Unit: mm



### Part numbering system (2.5V0.22F, terminal shaped: H)

|             |   |                      |   |                          |                   |   |    |
|-------------|---|----------------------|---|--------------------------|-------------------|---|----|
| DS          | — | 2R5                  | H | 224                      | □                 | — | HL |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Additional symbol |   |    |

### Part numbering system (3.3V0.22F, terminal shaped: H)

|             |   |                      |   |                          |                   |   |    |
|-------------|---|----------------------|---|--------------------------|-------------------|---|----|
| DSK         | — | 3R3                  | H | 224                      | □                 | — | HL |
| Series code |   | Rated voltage symbol |   | Rated capacitance symbol | Additional symbol |   |    |

### Standard Ratings

| Max. operating voltage(V) | Rated capacitance(F) | ELNA Parts No.  | φ DxL(mm) |
|---------------------------|----------------------|-----------------|-----------|
| 2.5                       | 0.22                 | DS-2R5H224U-HL  | 6.8x2.1   |
| 3.3                       | 0.22                 | DSK-3R3H224U-HL | 6.8x2.1   |

\* Reflow soldering condition : 146 page.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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