

## Metallized Polyester Film Capacitor

Type: **ECQE(F)**

Non-inductive construction using metallized Polyester film with flame retardant epoxy resin coating

### ■Features

- Self-healing property
- Excellent electrical characteristics
- Flame retardant epoxy resin coating
- RoHS directive compliant

### ■Recommended Applications

- General purpose usage
- ✳ Please contact us when applications are CD I , ignitor etc.

### ■Explanation of Part Numbers

|              |   |                           |   |             |   |             |   |           |    |        |        |
|--------------|---|---------------------------|---|-------------|---|-------------|---|-----------|----|--------|--------|
| 1            | 2 | 3                         | 4 | 5           | 6 | 7           | 8 | 9         | 10 | 11     | 12     |
| E            | C | Q                         | E |             |   |             |   |           |    | F      |        |
| Product code |   | Dielectric & construction |   | Rated volt. |   | Capacitance |   | Cap. Tol. |    | Suffix | Suffix |
|              |   |                           |   |             |   |             |   |           |    |        |        |
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### ●Explanation of Part Number for Odd Size Taping

| 1            | 2        | 3                         | 4        | 5           | 6 | 7           | 8 | 9 | 10       | 11        | 12       |
|--------------|----------|---------------------------|----------|-------------|---|-------------|---|---|----------|-----------|----------|
| <b>E</b>     | <b>C</b> | <b>Q</b>                  | <b>E</b> |             |   |             |   |   | <b>R</b> |           | <b>F</b> |
| Product code |          | Dielectric & construction |          | Rated volt. |   | Capacitance |   |   | Suffix   | Cap. Tol. | Suffix   |

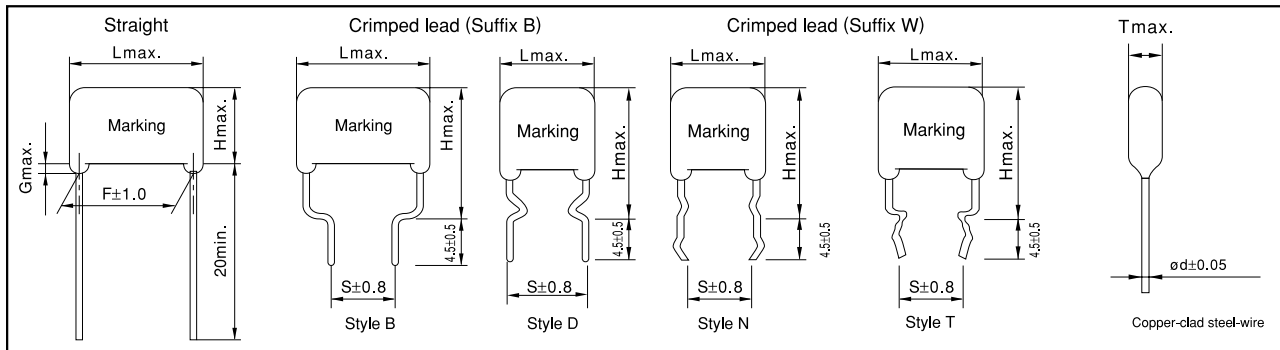
### ■Specifications

|                                                                      |                                                                                                                                                               |                                                                                                                                                                                           |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category temp. range<br>(Including temperature-rise on unit surface) | 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1250 VDC,                                                                                                       | -40 °C to +105 °C                                                                                                                                                                         |
|                                                                      | 125 VAC, 250 VAC                                                                                                                                              | -40 °C to +85 °C                                                                                                                                                                          |
| Rated voltage                                                        | 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1250 VDC,<br>(Derating of rated voltage by 1.25 %/°C at more than 85 °C)<br>125 VAC, 250 VAC                    |                                                                                                                                                                                           |
| Capacitance range                                                    | 0.0010 μF to 10 μF (E12)                                                                                                                                      |                                                                                                                                                                                           |
| Capacitance tolerance                                                | ±5 % (J), ±10 % (K)                                                                                                                                           |                                                                                                                                                                                           |
| Dissipation factor (tanδ)                                            | tanδ ≤ 1.0 % (20 °C, 1 kHz)                                                                                                                                   |                                                                                                                                                                                           |
| Withstand voltage                                                    | ● Rated volt. 100 V to 630 VDC<br>Between terminals : Rated volt.(VDC)×150 % 60 s                                                                             |                                                                                                                                                                                           |
|                                                                      | ● Rated volt. 1000 VDC, 1250 VDC<br>Between terminals : Rated volt. (VDC)×175 % 2 s to 5 s or 1000 VAC 60 s<br>Between terminals to enclosure : 1500 VAC 60 s |                                                                                                                                                                                           |
|                                                                      | ● Rated volt. 125 VAC, 250 VAC<br>Between terminals : Rated volt.(VAC)×230 % 60 s<br>Between terminals to enclosure : 1500 VAC 60 s                           |                                                                                                                                                                                           |
| Insulation resistance (IR)                                           | 100 V to 630 VDC:                                                                                                                                             | $C \leq 0.33 \mu\text{F} : IR \geq 9000 \text{ M}\Omega \text{ (20 °C, 100 VDC, 60 s)}$<br>$C > 0.33 \mu\text{F} : IR \geq 3000 \text{ M}\Omega \cdot \mu\text{F}$                        |
|                                                                      | 1000 VDC, 1250 VDC:                                                                                                                                           | $IR \geq 10000 \text{ M}\Omega \text{ (20 °C, 100 VDC, 60 s)}$<br>$IR \geq 2000 \text{ M}\Omega \text{ (20 °C, 500 VDC, 60 s)}$                                                           |
|                                                                      | 125 VAC, 250 VAC:                                                                                                                                             | $C \leq 0.47 \mu\text{F} : IR \geq 2000 \text{ M}\Omega \text{ (20 °C, 500 VDC, 60 s)}$<br>$C > 0.47 \mu\text{F} : IR \geq 3000 \text{ M}\Omega \cdot \mu\text{F (20 °C, 100 VDC, 60 s)}$ |

✳ In case of applying voltage in alternating current (50 Hz or 60 Hz sine wave) to a capacitor with DC rated voltage, please refer to the page of "Permissible voltage (R.M.S) in alternating current corresponding to DC rated voltage".

✳ Voltage to be applied to ECQE1A (F) & ECQE2A (F) is only sine wave (50 Hz or 60 Hz).

## ■Dimensions in mm (not to scale)

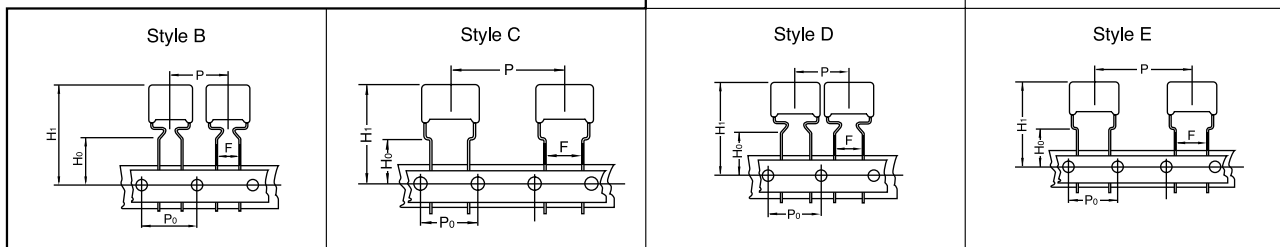


## ■Packaging Specifications for Bulk Package

Packing quantity: 100 pcs./bag

## ■Taping Specifications for Automatic Insertion

### ●Taping style



\*Refer to the page of taping specifications.

## ●Packaging Specifications

| Type     | Rated volt. | Cap. range (μF) | Taping style |    |    |   |   |   |   | Packing | suffix |
|----------|-------------|-----------------|--------------|----|----|---|---|---|---|---------|--------|
|          |             |                 | AD           | AS | AB | B | C | D | E |         |        |
| ECQE (F) | 100 VDC     | 0.56 to 0.68    | ○            |    |    |   |   |   |   | Ammo    | ( ) F3 |
|          |             | 0.56 to 0.68    | ○            |    |    |   |   |   |   | Reel    | ( ) F9 |
|          |             | 0.82 to 1.0     |              |    |    | ○ |   |   |   | Ammo    | ( ) F3 |
|          |             | 1.2 to 3.3      |              |    |    |   | ○ |   |   | Ammo    | ( ) F3 |
|          |             | 1.2 to 3.3      |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          | 250 VDC     | 0.010 to 0.27   | ○            |    |    |   |   |   |   | Ammo    | ( ) F3 |
|          |             | 0.33            |              |    |    | ○ |   |   |   | Ammo    | ( ) F3 |
|          |             | 0.39 to 1.5     |              |    |    |   | ○ |   |   | Ammo    | ( ) F3 |
|          |             | 0.010 to 0.33   |              |    |    |   |   | ○ |   | Ammo    | R( ) F |
|          |             | 0.39 to 1.5     |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          | 400 VDC     | 0.010 to 0.10   | ○            |    |    |   |   |   |   | Ammo    | ( ) F3 |
|          |             | 0.12 to 0.47    |              |    |    |   | ○ |   |   | Ammo    | ( ) F3 |
|          |             | 0.010 to 0.10   | ○            |    |    |   |   | ○ |   | Reel    | ( ) F9 |
|          |             | 0.010 to 0.10   |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          |             | 0.12 to 0.47    |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          | 630 VDC     | 0.0010 to 0.033 | ○            |    |    |   |   |   |   | Ammo    | ( ) F3 |
|          |             | 0.039 to 0.047  |              |    |    | ○ |   |   |   | Ammo    | ( ) F3 |
|          |             | 0.056 to 0.22   |              |    |    |   | ○ |   |   | Ammo    | ( ) F3 |
|          |             | 0.010 to 0.047  | ○            |    |    |   |   | ○ |   | Reel    | ( ) F9 |
|          |             | 0.0010 to 0.047 |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          | 1000 VDC    | 0.056 to 0.22   |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          |             | 0.0010 to 0.10  |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          |             | 0.0010 to 0.022 |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          |             | 0.010 to 0.15   |              |    | ○  |   |   |   |   | Ammo    | ( ) F6 |
|          |             | 0.18 to 0.47    |              |    |    |   | ○ |   |   | Ammo    | ( ) F3 |
|          | 125 VAC     | 0.010 to 0.22   |              |    |    |   |   | ○ |   | Ammo    | R( ) F |
|          |             | 0.27 to 0.47    |              |    |    |   |   |   | ○ | Ammo    | R( ) F |
|          |             | 0.010 to 0.033  |              |    | ○  |   |   |   |   | Ammo    | ( ) F6 |
|          |             | 0.010 to 0.047  |              |    |    |   |   | ○ |   | Ammo    | R( ) F |
|          |             | 0.056 to 0.22   |              |    |    |   |   |   | ○ | Ammo    | R( ) F |

## ●Lead Spacing

| Style | Lead Spacing |
|-------|--------------|
| AD    | 5.0 mm       |
| AB    | 5.0 mm       |
| B     | 5.0 mm       |
| C     | 5.0 mm       |
| D     | 7.5 mm       |
| E     | 7.5 mm       |

\*See the column "Rating, Dimensions & Quantity Box" for packing quantity.

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 100 VDC, Capacitance tolerance :  $\pm 5\%$ (J),  $\pm 10\%$ (K)

| Part No       | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |              |          |              |          |                   | Quantity        |              |              |                |
|---------------|--------------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|-------------------|-----------------|--------------|--------------|----------------|
|               |                    | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        |              | S        | G <sub>max.</sub> | $\varnothing$ d | Ammo<br>5 mm | Ammo<br>5 mm | Ammo<br>7.5 mm |
|               |                    |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |                   |                 |              |              |                |
| ECQE1564□F( ) | 0.56               | 12.0              | 5.5               | 10.9              | 15.9         | 10.0     | 10.0         | 1.0      | 0.60              | 500             | —            | —            |                |
| ECQE1684□F( ) | 0.68               | 12.0              | 6.0               | 11.9              | 16.9         | 10.0     | 10.0         | 1.0      | 0.60              |                 |              |              |                |
| ECQE1824□F( ) | 0.82               | 12.0              | 6.0               | 13.5              | 18.5         | 10.0     | 10.0         | 1.0      | 0.60              |                 |              |              |                |
| ECQE1105□F( ) | 1.0                | 12.0              | 6.7               | 14.0              | 19.0         | 10.0     | 10.0         | 1.0      | 0.60              |                 |              |              |                |
| ECQE1125□F( ) | 1.2                | 18.5              | 5.5               | 12.8              | 17.8         | 15.0     | 10.0         | 1.0      | 0.60              | —               | 1000         | 600          |                |
| ECQE1155□F( ) | 1.5                | 18.5              | 6.0               | 13.4              | 18.4         | 15.0     | 10.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1185□F( ) | 1.8                | 18.5              | 6.5               | 14.4              | 19.4         | 15.0     | 10.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1225□F( ) | 2.2                | 18.5              | 7.0               | 15.0              | 20.0         | 15.0     | 10.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1275□F( ) | 2.7                | 18.5              | 8.0               | 15.8              | 20.8         | 15.0     | 10.0         | 1.0      | 0.80              | —               | 500          | 500          |                |
| ECQE1335□F( ) | 3.3                | 18.5              | 8.5               | 16.5              | 21.5         | 15.0     | 10.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1395□F( ) | 3.9                | 26.0              | 7.0               | 16.4              | 21.4         | 22.5     | 15.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1475□F( ) | 4.7                | 26.0              | 7.5               | 17.0              | 22.0         | 22.5     | 15.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1565□F( ) | 5.6                | 26.0              | 8.3               | 17.5              | 22.5         | 22.5     | 15.0         | 1.0      | 0.80              | —               | 400          | 400          |                |
| ECQE1685□F( ) | 6.8                | 26.0              | 9.0               | 18.5              | 23.5         | 22.5     | 15.0         | 1.0      | 0.80              |                 |              |              |                |
| ECQE1825□F( ) | 8.2                | 26.0              | 10.0              | 20.0              | 25.0         | 22.5     | 15.0         | 1.5      | 0.80              |                 |              |              |                |
| ECQE1106□F( ) | 10.0               | 26.0              | 11.5              | 21.0              | 26.0         | 22.5     | 15.0         | 1.5      | 0.80              |                 |              |              |                |

↑ ↑  
Suffix for lead crimped or taped type  
Cap. tol. code

Style N, style D: 0.056  $\mu$ F to 1.0  $\mu$ F  
Style T, style B: 1.2  $\mu$ F to 10.0  $\mu$ F

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 250 VDC, Capacitance tolerance :  $\pm 5\%$ (J),  $\pm 10\%$ (K)

| Part No       | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |              |          |              |          |                   | Quantity |              |              |                |
|---------------|--------------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|-------------------|----------|--------------|--------------|----------------|
|               |                    | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        |              | S        | G <sub>max.</sub> | $\phi$ d | Ammo<br>5 mm | Ammo<br>5 mm | Ammo<br>7.5 mm |
|               |                    |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |                   |          |              |              |                |
| ECQE2103□F( ) | 0.010              | 10.3              | 4.3               | 7.4               | 12.4         | 7.5      | 7.5          | 1.0      | 0.60              | 1000     | —            | 1000         |                |
| ECQE2123□F( ) | 0.012              | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2153□F( ) | 0.015              | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2183□F( ) | 0.018              | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2223□F( ) | 0.022              | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2273□F( ) | 0.027              | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2333□F( ) | 0.033              | 10.3              | 4.5               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2393□F( ) | 0.039              | 10.3              | 4.5               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2473□F( ) | 0.047              | 10.3              | 4.5               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2563□F( ) | 0.056              | 10.3              | 4.8               | 7.9               | 12.9         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2683□F( ) | 0.068              | 10.3              | 4.5               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2823□F( ) | 0.082              | 10.3              | 4.9               | 8.0               | 13.0         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2104□F( ) | 0.10               | 10.3              | 5.8               | 8.4               | 13.4         | 7.5      | 7.5          | 1.0      | 0.60              | 500      |              |              |                |
| ECQE2124□F( ) | 0.12               | 10.3              | 6.0               | 9.0               | 14.0         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2154□F( ) | 0.15               | 10.3              | 6.0               | 10.8              | 15.8         | 7.5      | 7.5          | 1.0      | 0.60              |          |              |              |                |
| ECQE2184□F( ) | 0.18               | 12.0              | 5.0               | 10.3              | 15.3         | 10.0     | 10.0         | 1.0      | 0.60              |          |              |              |                |
| ECQE2224□F( ) | 0.22               | 12.0              | 5.5               | 10.5              | 15.5         | 10.0     | 10.0         | 1.0      | 0.60              |          |              |              |                |
| ECQE2274□F( ) | 0.27               | 12.0              | 6.0               | 11.5              | 16.5         | 10.0     | 10.0         | 1.0      | 0.60              | —        | 1000         | 500          |                |
| ECQE2334□F( ) | 0.33               | 12.0              | 6.5               | 12.0              | 17.0         | 10.0     | 10.0         | 1.0      | 0.60              |          | 400          |              | 300            |
| ECQE2394□F( ) | 0.39               | 18.5              | 4.9               | 12.0              | 17.0         | 15.0     | 10.0         | 1.0      | 0.60              |          |              |              |                |
| ECQE2474□F( ) | 0.47               | 18.5              | 5.3               | 12.5              | 17.5         | 15.0     | 10.0         | 1.0      | 0.60              |          |              |              |                |
| ECQE2564□F( ) | 0.56               | 18.5              | 5.5               | 13.0              | 18.0         | 15.0     | 10.0         | 1.0      | 0.60              |          |              |              |                |
| ECQE2684□F( ) | 0.68               | 18.5              | 6.0               | 13.5              | 18.5         | 15.0     | 10.0         | 1.0      | 0.80              |          |              |              |                |
| ECQE2824□F( ) | 0.82               | 18.5              | 6.5               | 14.5              | 19.5         | 15.0     | 10.0         | 1.0      | 0.80              |          | —            | —            |                |
| ECQE2105□F( ) | 1.0                | 18.5              | 7.4               | 15.0              | 20.0         | 15.0     | 10.0         | 1.0      | 0.80              |          |              |              |                |
| ECQE2125□F( ) | 1.2                | 18.5              | 8.0               | 15.9              | 20.9         | 15.0     | 10.0         | 1.0      | 0.80              |          |              |              |                |
| ECQE2155□F( ) | 1.5                | 18.5              | 9.0               | 16.8              | 21.8         | 15.0     | 10.0         | 1.0      | 0.80              |          |              |              |                |
| ECQE2185□F( ) | 1.8                | 26.0              | 7.5               | 15.5              | 20.5         | 22.5     | 15.0         | 1.0      | 0.80              |          |              |              |                |
| ECQE2225□F( ) | 2.2                | 26.0              | 8.5               | 16.3              | 21.3         | 22.5     | 15.0         | 1.0      | 0.80              | —        | —            |              |                |
| ECQE2275□F( ) | 2.7                | 26.0              | 9.4               | 17.0              | 22.0         | 22.5     | 15.0         | 1.0      | 0.80              |          |              |              |                |
| ECQE2335□F( ) | 3.3                | 26.0              | 10.3              | 18.0              | 23.0         | 22.5     | 15.0         | 1.5      | 0.80              |          |              |              |                |
| ECQE2395□F( ) | 3.9                | 26.0              | 11.0              | 20.5              | 25.5         | 22.5     | 15.0         | 1.5      | 0.80              |          |              |              |                |
| ECQE2475□F( ) | 4.7                | 26.0              | 12.0              | 21.5              | 26.5         | 22.5     | 15.0         | 1.5      | 0.80              |          |              |              |                |
| ECQE2565□F( ) | 5.6                | 31.0              | 11.8              | 21.0              | 26.0         | 27.5     | 22.5         | 1.5      | 0.80              |          |              |              |                |
| ECQE2685□F( ) | 6.8                | 31.0              | 13.0              | 22.4              | 27.4         | 27.5     | 22.5         | 1.5      | 0.80              |          |              |              |                |
| ECQE2825□F( ) | 8.2                | 31.0              | 14.3              | 23.5              | 28.5         | 27.5     | 22.5         | 1.5      | 0.80              |          |              |              |                |
| ECQE2106□F( ) | 10.0               | 31.0              | 15.9              | 25.8              | 30.8         | 27.5     | 22.5         | 1.5      | 0.80              |          |              |              |                |

↑ ↑  
Suffix for lead crimped or taped type  
Cap. tol. code

Style N, Style D: 0.010  $\mu$ F to 0.33  $\mu$ F  
Style T, Style B: 0.39  $\mu$ F to 10.0  $\mu$ F

## ■ Rating, Dimensions &amp; Quantity/Ammo Box

● Rated voltage : 400 VDC, Capacitance tolerance :  $\pm 5\%$  (J),  $\pm 10\%$  (K)

| Part No.      | Cap.<br>(μF) | Dimensions (mm)   |                   |                   |              |          |              |          |                   | Quantity. |                  |                  |                    |      |
|---------------|--------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|-------------------|-----------|------------------|------------------|--------------------|------|
|               |              | L <sup>max.</sup> | T <sup>max.</sup> | H <sup>max.</sup> |              | F        |              | S        | G <sup>max.</sup> | ϕ d       | Standard<br>5 mm | Odd size<br>5 mm | Odd size<br>7.5 mm |      |
|               |              |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |                   |           |                  |                  |                    |      |
| ECQE4103□F( ) | 0.010        | 10.3              | 4.3               | 7.4               | 12.4         | 7.5      | 7.5          | 1.0      | 0.60              | 1000      | —                | 1000             |                    |      |
| ECQE4123□F( ) | 0.012        | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4153□F( ) | 0.015        | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4183□F( ) | 0.018        | 10.3              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4223□F( ) | 0.022        | 10.3              | 4.8               | 7.9               | 12.9         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4273□F( ) | 0.027        | 10.3              | 5.5               | 8.0               | 13.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4333□F( ) | 0.033        | 10.3              | 6.0               | 9.0               | 14.0         | 7.5      | 7.5          | 1.0      | 0.60              | 500       |                  |                  | —                  | 1000 |
| ECQE4393□F( ) | 0.039        | 12.0              | 4.9               | 8.0               | 13.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4473□F( ) | 0.047        | 12.0              | 5.0               | 8.3               | 13.3         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4563□F( ) | 0.056        | 12.0              | 5.0               | 10.0              | 15.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4683□F( ) | 0.068        | 12.0              | 5.4               | 10.5              | 15.5         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4823□F( ) | 0.082        | 12.0              | 5.8               | 11.0              | 16.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4104□F( ) | 0.10         | 12.0              | 6.3               | 12.0              | 17.0         | 10.0     | 10.0         | 1.0      | 0.60              | —         | 500              | 500              |                    |      |
| ECQE4124□F( ) | 0.12         | 18.5              | 5.0               | 10.0              | 15.0         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4154□F( ) | 0.15         | 18.5              | 5.0               | 12.4              | 17.4         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4184□F( ) | 0.18         | 18.5              | 5.4               | 12.5              | 17.5         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4224□F( ) | 0.22         | 18.5              | 5.9               | 13.0              | 18.0         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |      |
| ECQE4274□F( ) | 0.27         | 18.5              | 6.5               | 14.3              | 19.3         | 15.0     | 10.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4334□F( ) | 0.33         | 18.5              | 7.0               | 14.9              | 19.9         | 15.0     | 10.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4394□F( ) | 0.39         | 18.5              | 7.5               | 15.4              | 20.4         | 15.0     | 10.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4474□F( ) | 0.47         | 18.5              | 7.8               | 17.0              | 22.0         | 15.0     | 10.0         | 1.0      | 0.80              | —         |                  | —                | 400                |      |
| ECQE4564□F( ) | 0.56         | 26.0              | 6.5               | 16.0              | 21.0         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4684□F( ) | 0.68         | 26.0              | 7.0               | 16.5              | 21.5         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4824□F( ) | 0.82         | 26.0              | 7.9               | 17.3              | 22.3         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4105□F( ) | 1.0          | 26.0              | 8.5               | 18.0              | 23.0         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4125□F( ) | 1.2          | 26.0              | 9.5               | 18.9              | 23.9         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4155□F( ) | 1.5          | 31.0              | 9.5               | 19.0              | 24.0         | 27.5     | 22.5         | 1.0      | 0.80              |           |                  |                  |                    |      |
| ECQE4185□F( ) | 1.8          | 31.0              | 11.0              | 20.5              | 25.5         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |      |
| ECQE4225□F( ) | 2.2          | 31.0              | 11.0              | 22.0              | 27.0         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |      |

↑      ↑  
 ———— Suffix for lead crimped or taped type  
 ———— Cap. tol. code

Style N, style D: 0.010  $\mu\text{F}$  to 0.10  $\mu\text{F}$   
 Style T, style B: 0.12  $\mu\text{F}$  to 2.2  $\mu\text{F}$

● Rated voltage : 630 VDC, Capacitance tolerance :  $\pm 5\%$  (J),  $\pm 10\%$  (K)

| Part No.      | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |              |          |              |          |                   | Quantity. |                  |                  |                    |   |
|---------------|--------------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|-------------------|-----------|------------------|------------------|--------------------|---|
|               |                    | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        |              | S        | G <sub>max.</sub> | $\phi$ d  | Standard<br>5 mm | Odd size<br>5 mm | Odd size<br>7.5 mm |   |
|               |                    |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |                   |           |                  |                  |                    |   |
| ECQE6102□F( ) | 0.0010             | 10.0              | 4.5               | 9.5               | 14.5         | 7.5      | 7.5          | 1.0      | 0.60              | 1000      | —                | 1500             |                    |   |
| ECQE6122□F( ) | 0.0012             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6152□F( ) | 0.0015             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6182□F( ) | 0.0018             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6222□F( ) | 0.0022             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6272□F( ) | 0.0027             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6332□F( ) | 0.0033             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6392□F( ) | 0.0039             | 10.0              | 4.5               | 10.0              | 15.0         | 7.5      | 7.5          | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6472□F( ) | 0.0047             | 12.0              | 4.5               | 10.0              | 15.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6562□F( ) | 0.0056             | 12.0              | 4.5               | 10.0              | 15.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6682□F( ) | 0.0068             | 12.0              | 4.9               | 10.0              | 15.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6822□F( ) | 0.0082             | 12.0              | 4.5               | 10.0              | 15.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6103□F( ) | 0.010              | 12.0              | 4.5               | 7.5               | 12.5         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6123□F( ) | 0.012              | 12.0              | 4.5               | 7.8               | 12.8         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6153□F( ) | 0.015              | 12.0              | 5.0               | 8.2               | 13.2         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6183□F( ) | 0.018              | 12.0              | 4.9               | 10.0              | 15.0         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6223□F( ) | 0.022              | 12.0              | 5.3               | 10.5              | 15.5         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6273□F( ) | 0.027              | 12.0              | 5.5               | 10.9              | 15.9         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6333□F( ) | 0.033              | 12.0              | 6.0               | 11.9              | 16.9         | 10.0     | 10.0         | 1.0      | 0.60              | 500       | 1000             |                  |                    |   |
| ECQE6393□F( ) | 0.039              | 12.0              | 6.0               | 13.4              | 18.4         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6473□F( ) | 0.047              | 12.0              | 6.5               | 13.5              | 18.5         | 10.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6563□F( ) | 0.056              | 18.5              | 5.4               | 10.5              | 15.5         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6683□F( ) | 0.068              | 18.5              | 5.8               | 11.0              | 16.0         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6823□F( ) | 0.082              | 18.5              | 6.5               | 12.0              | 17.0         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6104□F( ) | 0.10               | 18.5              | 6.3               | 14.0              | 19.0         | 15.0     | 10.0         | 1.0      | 0.60              |           |                  |                  |                    |   |
| ECQE6124□F( ) | 0.12               | 18.5              | 6.3               | 14.5              | 19.5         | 15.0     | 10.0         | 1.0      | 0.80              |           |                  |                  |                    |   |
| ECQE6154□F( ) | 0.15               | 18.5              | 7.5               | 15.4              | 20.4         | 15.0     | 10.0         | 1.0      | 0.80              | 500       | 500              | 400              |                    |   |
| ECQE6184□F( ) | 0.18               | 18.5              | 8.0               | 16.0              | 21.0         | 15.0     | 10.0         | 1.0      | 0.80              |           |                  |                  |                    |   |
| ECQE6224□F( ) | 0.22               | 18.5              | 9.0               | 16.5              | 21.5         | 15.0     | 10.0         | 1.0      | 0.80              |           |                  |                  |                    |   |
| ECQE6274□F( ) | 0.27               | 26.0              | 7.0               | 16.5              | 21.5         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |   |
| ECQE6334□F( ) | 0.33               | 26.0              | 7.8               | 17.0              | 22.0         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  | —                | —                  | — |
| ECQE6394□F( ) | 0.39               | 26.0              | 8.5               | 17.9              | 22.9         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |   |
| ECQE6474□F( ) | 0.47               | 26.0              | 9.3               | 18.5              | 23.5         | 22.5     | 15.0         | 1.0      | 0.80              |           |                  |                  |                    |   |
| ECQE6564□F( ) | 0.56               | 26.0              | 10.0              | 20.0              | 25.0         | 22.5     | 15.0         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6684□F( ) | 0.68               | 26.0              | 11.5              | 21.0              | 26.0         | 22.5     | 15.0         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6824□F( ) | 0.82               | 31.0              | 11.3              | 20.5              | 25.5         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6105□F( ) | 1.0                | 31.0              | 12.5              | 21.9              | 26.9         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6125□F( ) | 1.2                | 31.0              | 13.5              | 23.0              | 28.0         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6155□F( ) | 1.5                | 31.0              | 15.3              | 24.7              | 29.7         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6185□F( ) | 1.8                | 31.0              | 16.8              | 27.0              | 32.0         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |   |
| ECQE6225□F( ) | 2.2                | 31.0              | 19.5              | 29.0              | 34.0         | 27.5     | 22.5         | 1.5      | 0.80              |           |                  |                  |                    |   |

Style N, style D: 0.0010  $\mu$ F to 0.047  $\mu$ F  
 Style T, style B: 0.056  $\mu$ F to 2.2  $\mu$ F

## ■ Rating, Dimensions &amp; Quantity/Ammo Box

● Rated voltage : 1000 VDC, (Note) 125 VAC, Capacitance tolerance :  $\pm 5\%$  (J),  $\pm 10\%$  (K)

| Part No.       | Cap.<br>( $\mu\text{F}$ ) | Dimensions (mm)   |                   |                   |              |          |              |          |      | Quantity |                |
|----------------|---------------------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|------|----------|----------------|
|                |                           | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        |              | S        |      | $\phi$ d | Ammo<br>7.5 mm |
|                |                           |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |      |          |                |
| ECQE10102□F( ) | 0.0010                    | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0      | 0.60 | 500      |                |
| ECQE10122□F( ) | 0.0012                    | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10152□F( ) | 0.0015                    | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10182□F( ) | 0.0018                    | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10222□F( ) | 0.0022                    | 15.5              | 6.0               | 11.5              | 16.5         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10272□F( ) | 0.0027                    | 15.5              | 6.5               | 12.0              | 17.0         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10332□F( ) | 0.0033                    | 15.5              | 6.0               | 11.5              | 16.5         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10392□F( ) | 0.0039                    | 15.5              | 6.5               | 12.0              | 17.0         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10472□F( ) | 0.0047                    | 15.5              | 7.0               | 12.5              | 17.5         | 12.5     | 10.0         | 1.0      | 0.60 | 400      |                |
| ECQE10562□F( ) | 0.0056                    | 15.5              | 7.5               | 13.0              | 18.0         | 12.5     | 10.0         | 1.0      | 0.60 | 500      |                |
| ECQE10682□F( ) | 0.0068                    | 15.5              | 7.0               | 12.5              | 17.5         | 12.5     | 10.0         | 1.0      | 0.60 |          |                |
| ECQE10822□F( ) | 0.0082                    | 15.5              | 6.5               | 12.0              | 17.0         | 12.5     | 12.5         | 1.0      | 0.60 |          |                |
| ECQE10103□F( ) | 0.010                     | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 12.5         | 1.0      | 0.60 |          |                |
| ECQE10123□F( ) | 0.012                     | 15.5              | 6.0               | 12.0              | 17.0         | 12.5     | 12.5         | 1.0      | 0.60 |          |                |
| ECQE10153□F( ) | 0.015                     | 15.5              | 7.0               | 12.5              | 17.5         | 12.5     | 12.5         | 1.0      | 0.60 |          |                |
| ECQE10183□F( ) | 0.018                     | 15.5              | 7.5               | 13.0              | 20.0         | 12.5     | 12.5         | 1.0      | 0.80 | 400      |                |
| ECQE10223□F( ) | 0.022                     | 15.5              | 7.5               | 15.5              | 22.5         | 12.5     | 12.5         | 1.0      | 0.80 |          |                |
| ECQE10273□F( ) | 0.027                     | 21.0              | 6.0               | 13.0              | 18.0         | 17.5     | 12.5         | 1.0      | 0.80 | 500      |                |
| ECQE10333□F( ) | 0.033                     | 21.0              | 6.5               | 14.0              | 19.0         | 17.5     | 12.5         | 1.0      | 0.80 |          |                |
| ECQE10393□F( ) | 0.039                     | 21.0              | 7.0               | 14.5              | 19.5         | 17.5     | 12.5         | 1.0      | 0.80 |          |                |
| ECQE10473□F( ) | 0.047                     | 21.0              | 7.5               | 15.5              | 20.5         | 17.5     | 12.5         | 1.0      | 0.80 | 400      |                |
| ECQE10563□F( ) | 0.056                     | 21.0              | 7.5               | 17.0              | 22.0         | 17.5     | 12.5         | 1.0      | 0.80 |          |                |
| ECQE10683□F( ) | 0.068                     | 21.0              | 8.5               | 18.0              | 23.0         | 17.5     | 12.5         | 1.0      | 0.80 |          |                |
| ECQE10823□F( ) | 0.082                     | 21.0              | 9.0               | 18.5              | 23.5         | 17.5     | 12.5         | 1.0      | 0.80 | 300      |                |
| ECQE10104□F( ) | 0.10                      | 21.0              | 10.0              | 20.0              | 25.0         | 17.5     | 12.5         | 1.0      | 0.80 |          |                |
| ECQE10124□F( ) | 0.12                      | 26.0              | 9.0               | 18.5              | 23.5         | 22.5     | 17.5         | 1.0      | 0.80 | —        |                |
| ECQE10154□F( ) | 0.15                      | 26.0              | 10.0              | 20.0              | 25.0         | 22.5     | 17.5         | 1.5      | 0.80 |          |                |
| ECQE10184□F( ) | 0.18                      | 26.0              | 10.5              | 22.0              | 27.0         | 22.5     | 17.5         | 1.5      | 0.80 |          |                |
| ECQE10224□F( ) | 0.22                      | 26.0              | 12.0              | 23.0              | 28.0         | 22.5     | 17.5         | 1.5      | 0.80 |          |                |

Style D: 0.0010  $\mu\text{F}$  to 0.022  $\mu\text{F}$   
 Style B: 0.027  $\mu\text{F}$  to 0.22  $\mu\text{F}$

Note) This type has two rated voltage, one is DC rated voltage another is AC rated voltage..

DC rated voltage is 1000 V, AC rated voltage is 125 V.

Making for rated voltage is 「1000 V, 125 V $\sim$ 」

When capacitors use in secondary side of power source, and in case of applying voltage in altering current (50 Hz or 60 Hz sine wave) to a capacitor, please refer to the page of "Permissible voltage (R.M.S) in altering current corresponding to DC rated voltage".

When capacitors use in primary side of power source, the rated voltage is shown 125 VAC. Voltage to be applied to capacitors in only sine wave (50 Hz or 60 Hz).

AC rated capacitors complying with clause 1 of "Electrical Appliance and Material Safety Law". And not complying with clause 2 of "Electrical Appliance and Material Safety Law", in this case please use ECQUL type or ECQUG type

## ■ Rating, Dimensions &amp; Quantity/Ammo Box

● Rated voltage : 1250 VDC, (Note) 125 VAC, Capacitance tolerance :  $\pm 5\%$  (J),  $\pm 10\%$  (K)

| Part No.       | Cap.<br>(μF) | Dimensions (mm)   |                   |                   |              |          |              |                   |      | Quantity       |
|----------------|--------------|-------------------|-------------------|-------------------|--------------|----------|--------------|-------------------|------|----------------|
|                |              | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        | S            | G <sub>max.</sub> | ød   | Ammo<br>7.5 mm |
|                |              |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight          |      |                |
| ECQE12102□F( ) | 0.0010       | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0               | 0.60 | 500            |
| ECQE12122□F( ) | 0.0012       | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12152□F( ) | 0.0015       | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12182□F( ) | 0.0018       | 15.5              | 6.0               | 11.0              | 16.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12222□F( ) | 0.0022       | 15.5              | 6.0               | 11.5              | 16.5         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12272□F( ) | 0.0027       | 15.5              | 6.5               | 12.0              | 17.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12332□F( ) | 0.0033       | 15.5              | 6.0               | 11.5              | 16.5         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12392□F( ) | 0.0039       | 15.5              | 6.5               | 12.0              | 17.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12472□F( ) | 0.0047       | 15.5              | 7.0               | 12.5              | 17.5         | 12.5     | 10.0         | 1.0               | 0.60 | 400            |
| ECQE12562□F( ) | 0.0056       | 15.5              | 7.5               | 13.0              | 18.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12682□F( ) | 0.0068       | 15.5              | 7.5               | 15.0              | 20.0         | 12.5     | 10.0         | 1.0               | 0.60 |                |
| ECQE12822□F( ) | 0.0082       | 21.0              | 5.0               | 12.0              | 17.0         | 17.5     | 12.5         | 1.0               | 0.60 | 500            |
| ECQE12103□F( ) | 0.010        | 21.0              | 5.0               | 12.5              | 17.5         | 17.5     | 12.5         | 1.0               | 0.60 |                |
| ECQE12123□F( ) | 0.012        | 21.0              | 5.5               | 13.0              | 18.0         | 17.5     | 12.5         | 1.0               | 0.60 |                |
| ECQE12153□F( ) | 0.015        | 21.0              | 6.0               | 13.5              | 18.5         | 17.5     | 12.5         | 1.0               | 0.60 |                |
| ECQE12183□F( ) | 0.018        | 21.0              | 6.5               | 14.5              | 19.5         | 17.5     | 12.5         | 1.0               | 0.80 |                |
| ECQE12223□F( ) | 0.022        | 21.0              | 7.0               | 15.0              | 20.0         | 17.5     | 12.5         | 1.0               | 0.80 |                |
| ECQE12273□F( ) | 0.027        | 26.0              | 6.0               | 15.5              | 20.5         | 22.5     | 17.5         | 1.0               | 0.80 |                |
| ECQE12333□F( ) | 0.033        | 26.0              | 6.5               | 16.0              | 21.0         | 22.5     | 17.5         | 1.0               | 0.80 |                |
| ECQE12393□F( ) | 0.039        | 26.0              | 7.0               | 16.5              | 21.5         | 22.5     | 17.5         | 1.0               | 0.80 |                |
| ECQE12473□F( ) | 0.047        | 26.0              | 8.0               | 17.0              | 22.0         | 22.5     | 17.5         | 1.0               | 0.80 |                |
| ECQE12563□F( ) | 0.056        | 31.0              | 7.5               | 17.0              | 22.0         | 27.5     | 22.5         | 1.0               | 0.80 |                |
| ECQE12683□F( ) | 0.068        | 31.0              | 8.0               | 17.5              | 22.5         | 27.5     | 22.5         | 1.0               | 0.80 |                |
| ECQE12823□F( ) | 0.082        | 31.0              | 9.0               | 18.5              | 23.5         | 27.5     | 22.5         | 1.0               | 0.80 |                |
| ECQE12104□F( ) | 0.10         | 31.0              | 10.0              | 19.5              | 24.5         | 27.5     | 22.5         | 1.0               | 0.80 |                |
| ECQE12124□F( ) | 0.12         | 31.0              | 11.5              | 20.5              | 25.5         | 27.5     | 22.5         | 1.5               | 0.80 |                |
| ECQE12154□F( ) | 0.15         | 31.0              | 12.0              | 23.0              | 28.0         | 27.5     | 22.5         | 1.5               | 0.80 |                |
| ECQE12184□F( ) | 0.18         | 31.0              | 13.0              | 24.5              | 29.5         | 27.5     | 22.5         | 1.5               | 0.80 |                |
| ECQE12224□F( ) | 0.22         | 31.0              | 14.5              | 26.5              | 31.5         | 27.5     | 22.5         | 1.5               | 0.80 |                |

Suffix for lead crimped or taped type.  
 Cap. tol. code

Style D: 0.0010  $\mu$ F to 0.0068  $\mu$ F  
 Style B: 0.0082  $\mu$ F to 0.22  $\mu$ F

Note) This type has two rated voltage, one is DC rated voltage another is AC rated voltage..

DC rated voltage is 1250 V, AC rated voltage is 125 V.

Making for rated voltage is 「1250 V, 125 V $\sim$ 」

When capacitors use in secondary side of power source, and in case of applying voltage in altering current (50 Hz or 60 Hz sine wave) to a capacitor, please refer to the page of "Permissible voltage (R.M.S) in altering current corresponding to DC rated voltage".

When capacitors use in primary side of power source, the rated voltage is shown 125 VAC. Voltage to be applied to capacitors in only sine wave (50 Hz or 60 Hz).

AC rated capacitors complying with clause 1 of "Electrical Appliance and Material Safety Law". And not complying with clause 2 of "Electrical Appliance and Material Safety Law", in this case please use ECQUL type or ECQUG type

## ■ Rating, Dimensions &amp; Quantity/Ammo Box

● Rated voltage : 125 VAC, Capacitance tolerance :  $\pm 5\%$  (J),  $\pm 10\%$  (K)

Noise suppression Capacitors (Across-the-line)

| Part No.         | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |              |          |              |          |                   | Quantity |                  |                  |                    |
|------------------|--------------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|-------------------|----------|------------------|------------------|--------------------|
|                  |                    | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        |              | S        | G <sub>max.</sub> | $\phi$ d | Standard<br>5 mm | Odd size<br>5 mm | Odd size<br>7.5 mm |
|                  |                    |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |                   |          |                  |                  |                    |
| ECQE1A103□F( )   | 0.010              | 10.5              | 4.5               | 7.5               | 12.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     | 1000             | —                | 1000               |
| ECQE1A123□F( )   | 0.012              | 10.5              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A153□F( )   | 0.015              | 10.5              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A183□F( )   | 0.018              | 10.5              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A223□F( )   | 0.022              | 10.5              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A273□F( )   | 0.027              | 10.5              | 4.4               | 7.5               | 12.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A333□F( )   | 0.033              | 10.5              | 4.5               | 7.8               | 12.8         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A393□F( )   | 0.039              | 10.5              | 4.5               | 7.8               | 12.8         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A473□F( )   | 0.047              | 10.5              | 5.5               | 8.0               | 13.0         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     | 500              | —                | 1000               |
| ECQE1A563□F( )   | 0.056              | 10.5              | 5.9               | 8.5               | 13.5         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A683□F( )   | 0.068              | 10.5              | 6.3               | 9.4               | 14.4         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A823□F( )   | 0.082              | 10.5              | 6.5               | 9.8               | 14.8         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A104□F( )   | 0.10               | 10.5              | 6.5               | 11.8              | 16.8         | 7.5      | 7.5          | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A124□F( )   | 0.12               | 12.5              | 5.9               | 11.5              | 16.5         | 10.0     | 10.0         | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A154□F( )   | 0.15               | 12.5              | 6.5               | 12.0              | 17.0         | 10.0     | 10.0         | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A184□F( )   | 0.18               | 12.5              | 7.0               | 12.5              | 17.5         | 10.0     | 10.0         | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A224□F( )   | 0.22               | 12.5              | 7.5               | 13.4              | 18.4         | 10.0     | 10.0         | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A274□F( )   | 0.27               | 18.5              | 6.3               | 12.0              | 17.0         | 15.0     | 10.0         | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A334□F( )   | 0.33               | 18.5              | 6.9               | 12.5              | 17.5         | 15.0     | 10.0         | 7.5      | 1.0               | 0.60     | 500              | 400              |                    |
| ECQE1A394□F( )   | 0.39               | 18.5              | 7.4               | 13.0              | 18.0         | 15.0     | 10.0         | 7.5      | 1.0               | 0.60     |                  |                  |                    |
| ECQE1A474□F( )   | 0.47               | 18.5              | 7.5               | 15.3              | 20.3         | 15.0     | 10.0         | 7.5      | 1.0               | 0.60     | —                | 500              |                    |
| ECQE1A564P( )( ) | 0.56               | 26.0              | 6.0               | 13.5              | 18.5         | 22.5     | 7.5          | 7.5      | 1.0               | 0.80     |                  |                  |                    |
| ECQE1A684P( )( ) | 0.68               | 26.0              | 6.5               | 14.5              | 19.5         | 22.5     | 7.5          | 7.5      | 1.0               | 0.80     |                  |                  |                    |
| ECQE1A824P( )( ) | 0.82               | 26.0              | 7.0               | 15.0              | 20.0         | 22.5     | 7.5          | 7.5      | 1.0               | 0.80     |                  |                  |                    |
| ECQE1A105P( )( ) | 1.0                | 26.0              | 8.0               | 15.5              | 20.5         | 22.5     | 7.5          | 7.5      | 1.0               | 0.80     |                  |                  |                    |
| ECQE1A125P( )( ) | 1.2                | 26.0              | 8.5               | 16.5              | 21.5         | 22.5     | 7.5          | 7.5      | 1.0               | 0.80     |                  |                  |                    |
| ECQE1A155P( )( ) | 1.5                | 26.0              | 9.5               | 17.5              | 22.5         | 22.5     | 7.5          | 7.5      | 1.0               | 0.80     |                  |                  |                    |
| ECQE1A185P( )( ) | 1.8                | 26.0              | 10.5              | 18.0              | 23.0         | 22.5     | 7.5          | 7.5      | 1.5               | 0.80     | 200              |                  |                    |
| ECQE1A225P( )( ) | 2.2                | 26.0              | 12.0              | 20.0              | 25.0         | 22.5     | 7.5          | 7.5      | 1.5               | 0.80     |                  |                  |                    |

□F( )

└─ Suffix for lead crimped or taped type.  
└─ Cap. tol. code

Style N, style D: 0.010  $\mu$ F to 0.22  $\mu$ F  
Style T, style B: 0.27  $\mu$ F to 0.47  $\mu$ F

\*Please consult us about Crimped lead type of 0.56  $\mu$ F to 2.2  $\mu$ F.

## Notice for AC rated

AC rated capacitors complying with clause 1 of "Electrical Appliance and Material Safety Law".

As for clause 2 of "Electrical Appliance and Material Safety Law", please use ECQUL type or ECQUG type.

When using these capacitors as a across-the-line capacitor, it shall be required to follow either item 1. or item 2. condition.

1. Capacitor shall be connected in parallel with varistor (Specified varistor voltage in table 1.)
2. Voltage applied for capacitor shall not exceed other than specified in table 1, when using these capacitors.

Table 1

| Cap. Rated Voltage | Varistor voltage | Pulse voltage        |
|--------------------|------------------|----------------------|
| 125 VAC            | 250 V            | 250 V <sub>0-P</sub> |



● Rated voltage : 250 VAC, Capacitance tolerance :  $\pm 5\%$  (J),  $\pm 10\%$  (K)

Noise suppression Capacitors (Across-the-line)

| Part No.         | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |              |          |              |          |                   | Quantity |                  |                    |
|------------------|--------------------|-------------------|-------------------|-------------------|--------------|----------|--------------|----------|-------------------|----------|------------------|--------------------|
|                  |                    | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> |              | F        |              | S        | G <sub>max.</sub> | $\phi$ d | Standard<br>5 mm | Odd size<br>7.5 mm |
|                  |                    |                   |                   | Straight          | Crimped lead | Straight | Crimped lead | Straight |                   |          |                  |                    |
| ECQE2A103□F( )   | 0.010              | 12.5              | 5.5               | 10.8              | 15.8         | 10.0     | 10.0         | 1.0      | 0.60              | 500      | 1000             |                    |
| ECQE2A123□F( )   | 0.012              | 12.5              | 6.0               | 11.5              | 16.5         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A153□F( )   | 0.015              | 12.5              | 6.3               | 9.9               | 14.9         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A183□F( )   | 0.018              | 12.5              | 6.0               | 11.9              | 16.9         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A223□F( )   | 0.022              | 12.5              | 6.0               | 11.5              | 16.5         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A273□F( )   | 0.027              | 12.5              | 5.5               | 10.9              | 15.9         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A333□F( )   | 0.033              | 12.5              | 6.0               | 11.9              | 16.9         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A393□F( )   | 0.039              | 12.5              | 6.0               | 13.4              | 18.4         | 10.0     | 10.0         | 1.0      | 0.60              | —        | 500              |                    |
| ECQE2A473□F( )   | 0.047              | 12.5              | 6.5               | 14.4              | 19.4         | 10.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A563□F( )   | 0.056              | 18.5              | 5.4               | 10.5              | 15.5         | 15.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A683□F( )   | 0.068              | 18.5              | 5.8               | 11.0              | 16.0         | 15.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A823□F( )   | 0.082              | 18.5              | 6.3               | 12.0              | 17.0         | 15.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A104□F( )   | 0.10               | 18.5              | 6.3               | 14.0              | 19.0         | 15.0     | 10.0         | 1.0      | 0.60              |          |                  |                    |
| ECQE2A124□F( )   | 0.12               | 18.5              | 6.8               | 14.5              | 19.5         | 15.0     | 10.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A154□F( )   | 0.15               | 18.5              | 7.5               | 15.4              | 20.4         | 15.0     | 10.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A184□F( )   | 0.18               | 18.5              | 8.0               | 16.0              | 21.0         | 15.0     | 10.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A224□F( )   | 0.22               | 18.5              | 9.0               | 16.9              | 21.9         | 15.0     | 10.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A274□F( )   | 0.27               | 26.0              | 7.0               | 16.5              | 21.5         | 22.5     | 15.0         | 1.0      | 0.80              | —        | 300              |                    |
| ECQE2A334□F( )   | 0.33               | 26.0              | 7.8               | 17.0              | 22.0         | 22.5     | 15.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A394□F( )   | 0.39               | 26.0              | 8.5               | 17.9              | 22.9         | 22.5     | 15.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A474□F( )   | 0.47               | 26.0              | 9.3               | 18.5              | 23.5         | 22.5     | 15.0         | 1.0      | 0.80              |          |                  |                    |
| ECQE2A564P( )( ) | 0.56               | 26.0              | 10.0              | 20.0              | —            | 22.5     | —            | 1.0      | 0.80              |          |                  |                    |
| ECQE2A684P( )( ) | 0.68               | 26.0              | 11.5              | 21.0              | —            | 22.5     | —            | 1.0      | 0.80              |          |                  |                    |
| ECQE2A824P( )( ) | 0.82               | 26.0              | 13.0              | 22.5              | —            | 22.5     | —            | 1.0      | 0.80              |          |                  |                    |
| ECQE2A105P( )( ) | 1.0                | 31.0              | 12.5              | 21.9              | —            | 27.5     | —            | 1.5      | 0.80              |          |                  |                    |
| ECQE2A125P( )( ) | 1.2                | 31.0              | 13.5              | 23.0              | —            | 27.5     | —            | 1.5      | 0.80              |          |                  |                    |
| ECQE2A155P( )( ) | 1.5                | 31.0              | 15.3              | 24.7              | —            | 27.5     | —            | 1.5      | 0.80              |          |                  |                    |
| ECQE2A185P( )( ) | 1.8                | 31.0              | 16.8              | 27.0              | —            | 27.5     | —            | 1.5      | 0.80              | —        | —                |                    |
| ECQE2A225P( )( ) | 2.2                | 31.0              | 19.5              | 29.0              | —            | 27.5     | —            | 1.5      | 0.80              |          |                  |                    |

□F( )

└─ Suffix for lead crimped or taped type.

└─ Cap. tol. code

Style D: 0.010  $\mu$ F to 0.047  $\mu$ F

Style B: 0.056  $\mu$ F to 0.47  $\mu$ F

\*Please consult us about Crimped lead type of 0.56  $\mu$ F to 2.2  $\mu$ F.

Notice for AC rated

AC rated capacitors complying with clause 1 of "Electrical Appliance and Material Safety Law".

As for clause 2 of "Electrical Appliance and Material Safety Law", please use ECQUL type or ECQUG type.

When using these capacitors as a across-the-line capacitor, it shall be required to follow either item 1. or item 2. condition.

1. Capacitor shall be connected in parallel with varistor (Specified varistor voltage in table 1.)
2. Voltage applied for capacitor shall not exceed other than specified in table 1, when using these capacitors.

Table 1

| Cap. Rated Voltage | Varistor voltage | Pulse voltage        |
|--------------------|------------------|----------------------|
| 250 VAC            | 470 V            | 630 V <sub>0-P</sub> |