

## Metallized Polypropylene Film Capacitors

Type: **ECWH(A)**

Designed for high frequency and pluse applications.

### ■Features

- Small size
- Excellent electrical characteristics
- Low loss
- Low Hum Sound Noise
- Flame-retardant epoxy resin coating
- RoHS directive compliant

### ■Recommended Applications

- Resonant circuit, Electronic ballast

### ■Explanation of Part Numbers

| 1            | 2                         | 3        | 4             | 5 | 6           | 7 | 8 | 9 | 10        | 11       | 12           |
|--------------|---------------------------|----------|---------------|---|-------------|---|---|---|-----------|----------|--------------|
| <b>E</b>     | <b>C</b>                  | <b>W</b> | <b>H</b>      |   |             |   |   |   |           | <b>A</b> |              |
| Product code | Dielectric & construction |          | Rated voltage |   | Capacitance |   |   |   | Cap. Tol. | Suffix   | Suffix       |
|              |                           |          |               | 8 | 800VDC      |   |   |   | H         | ±3 %     |              |
|              |                           |          |               |   |             |   |   |   |           |          |              |
|              |                           |          |               |   |             |   |   |   |           | Suffix   | Lead Form    |
|              |                           |          |               |   |             |   |   |   |           | Blank    | Straight     |
|              |                           |          |               |   |             |   |   |   |           | B        | Crimped lead |
|              |                           |          |               |   |             |   |   |   |           | Q        | Crimped lead |
|              |                           |          |               |   |             |   |   |   |           | C        | Cut lead     |

### ■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>W</b> | <b>H</b>      |   |             |   |   |   | <b>R</b>   |         | <b>A</b> |
| Product code | Dielectric & construction |          | Rated voltage |   | Capacitance |   |   |   | Ammo 7.5mm | Cap.tol | Suffix   |

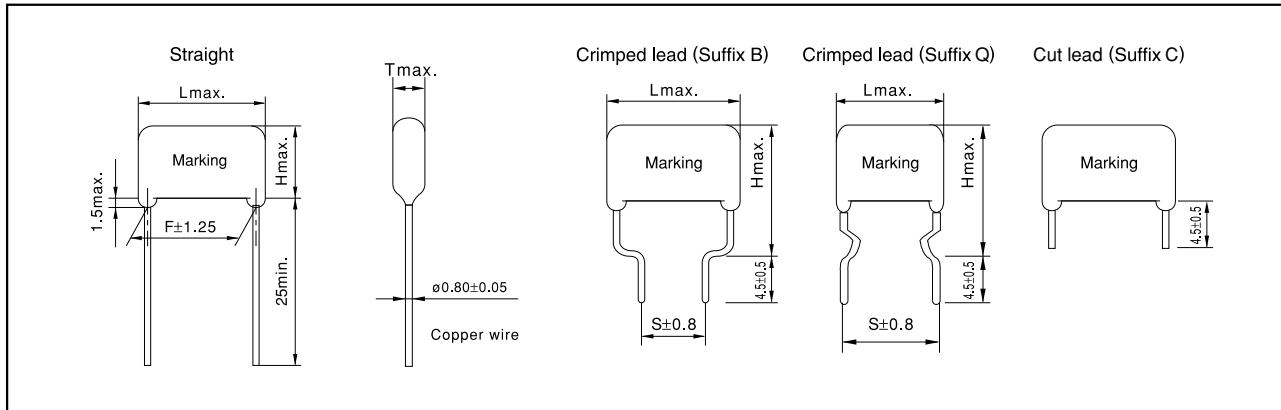
### ■Specifications

|                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| Category temp. range<br>(Including temperature-rise on unit surface) | -40 °C to + 105 °C                                        |
| Rated voltage                                                        | 800 VDC                                                   |
| Capacitance range                                                    | 0.010 μF to 0.047 μF                                      |
| Capacitance tolerance                                                | ± 3 % (H)                                                 |
| Dissipation factor (tan δ)                                           | tan δ ≤ 0.1 % (20°C, 1kHz)<br>tan δ ≤ 0.2 % (20°C, 10kHz) |
| Withstand voltage                                                    | Between terminals : Rated volt. (VDC) × 150 % 60 s        |
| Insulation resistance (IR)                                           | IR ≥ 30000 MΩ (20 °C, 500 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".



## ■Dimensions in mm (not to scale)

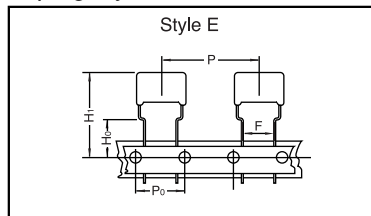


## ■Packaging Specifications for Bulk Package

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<br>( $\mu$ F) | Taping style |    |   |   |   |   | Packing |
|---------|-------------|--------------------------|--------------|----|---|---|---|---|---------|
|         |             |                          | AD           | AS | B | C | D | E |         |
| ECWH(A) | 800 VDC     | 0.010 to 0.047           |              |    |   |   |   | ○ | Ammo    |

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

## ●Lead Spacing

| Style | Lead Spacing |
|-------|--------------|
| E     | 7.5 mm       |

## ■Rating & Dimensions

### ●Rated voltage : 800 VDC Capacitance tolerance : $\pm 3\%$ (H)

| Part No.      | Cap.<br>( $\mu$ F) | Dimensions (mm)  |                  |                   |                            |                            |      |                            |                            |                   |     | Min. order Q'ty |  |
|---------------|--------------------|------------------|------------------|-------------------|----------------------------|----------------------------|------|----------------------------|----------------------------|-------------------|-----|-----------------|--|
|               |                    | L <sub>max</sub> | T <sub>max</sub> | H <sub>max.</sub> |                            |                            | F    | S                          |                            | G <sub>max.</sub> | ød  | Taping<br>7.5mm |  |
|               |                    |                  |                  | Straight          | Crimped lead<br>(Suffix B) | Crimped lead<br>(Suffix Q) |      | Crimped lead<br>(Suffix B) | Crimped lead<br>(Suffix Q) |                   |     |                 |  |
| ECWH8103□A( ) | 0.010              | 15.4             | 5.4              | 9.8               | 14.8                       | 14.8                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.6 | 500             |  |
| ECWH8123□A( ) | 0.012              | 15.4             | 5.8              | 10.2              | 15.2                       | 15.2                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.6 |                 |  |
| ECWH8153□A( ) | 0.015              | 15.4             | 6.2              | 10.6              | 15.6                       | 15.6                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.6 |                 |  |
| ECWH8183□A( ) | 0.018              | 15.7             | 6.6              | 11.0              | 16.0                       | 18.0                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.8 | 400             |  |
| ECWH8223□A( ) | 0.022              | 15.7             | 7.1              | 11.5              | 16.5                       | 18.5                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.8 |                 |  |
| ECWH8273□A( ) | 0.027              | 15.7             | 7.6              | 12.0              | 17.0                       | 19.0                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.8 |                 |  |
| ECWH8333□A( ) | 0.033              | 15.7             | 8.4              | 12.8              | 17.8                       | 19.8                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.8 | 300             |  |
| ECWH8393□A( ) | 0.039              | 15.7             | 8.9              | 13.3              | 18.3                       | 20.3                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.8 |                 |  |
| ECWH8473□A( ) | 0.047              | 15.7             | 9.7              | 14.1              | 19.1                       | 21.1                       | 12.5 | 7.5                        | 12.5                       | 1.5               | 0.8 |                 |  |

↑ Suffix for lead crimped taped type  
 ↑ Capacitance tolerance code