

## Metallized Polypropylene Film Capacitor

Type : **ECWH(V)**

Designed for high frequency and pluse applications.

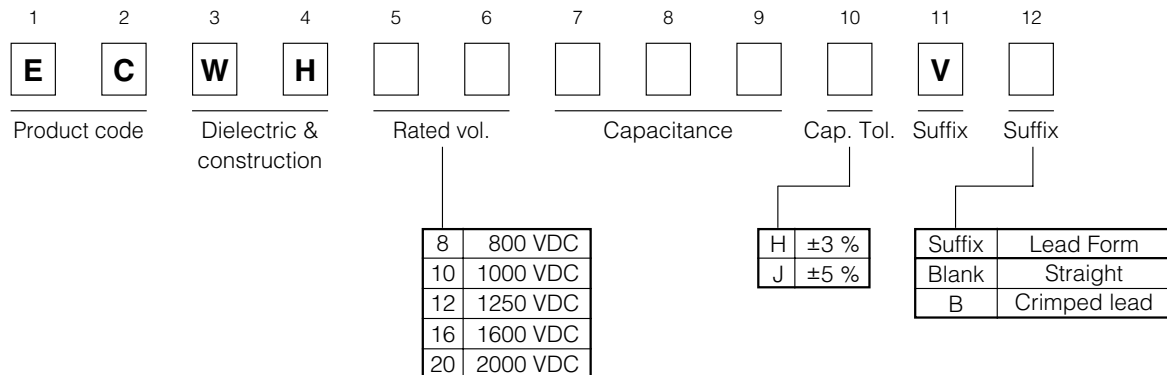
### ■Features

- Low-loss and inherent temperature rise
- Excellent electrical characteristics
- Flame-retardant epoxy resin coating
- RoHS directive compliant

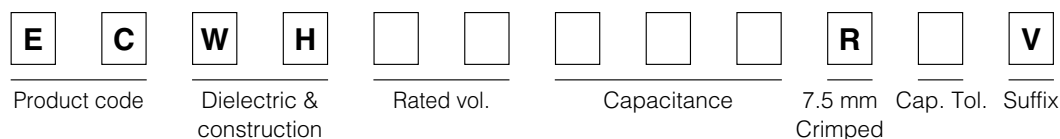
### ■Recommended Applications

- TV, Monitors, Electronic ballast

### ■Explanation of Part Numbers



### ●Explanation of Part Number for Odd Size Taping

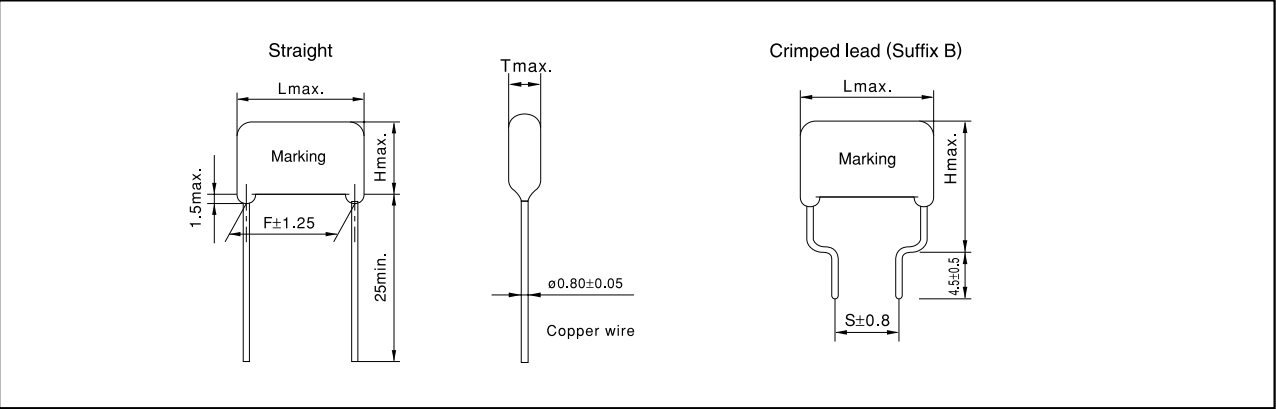


### ■Specifications

|                                                                      |                                                                                                                                                    |                       |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Category temp. range<br>(Including temperature-rise on unit surface) | -40 °C to +105 °C                                                                                                                                  |                       |
| Rated voltage                                                        | 800 VDC, 1000 VDC, 1250 VDC (1000 Vp-p), 1600 VDC (1200 Vp-p), 2000 VDC (1500 Vp-p)<br>(Derating of rated voltage by 1.25 %/°C at more than 85 °C) |                       |
| Capacitance range                                                    | 800 VDC, 1000 VDC, 1250 VDC                                                                                                                        | 0.0010 µF to 0.10 µF  |
|                                                                      | 1600 VDC                                                                                                                                           | 0.0010 µF to 0.056 µF |
|                                                                      | 2000 VDC                                                                                                                                           | 0.0010 µF to 0.015 µF |
| Capacitance tolerance                                                | ±3 % (H), ±5 % (J)                                                                                                                                 |                       |
| Dissipation factor (tan δ)                                           | tan δ ≤ 0.1 % (20 °C, 1 kHz), tan δ ≤ 0.2 % (20 °C, 10 kHz)                                                                                        |                       |
| Withstand voltage                                                    | Between terminals: Rated volt. (VDC) × 150 % 60 s<br>Between terminals to enclosure: 1500 VAC 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)

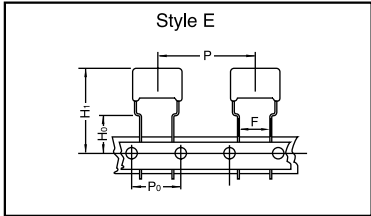


■Packaging Specifications for Bulk Package

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 | suffix |
|---------|-------------|--------------------------|--------------|----|---|---|---|---|---------|--------|
|         |             |                          | AD           | AS | B | C | D | E |         |        |
| ECWH(V) | 800 VDC     | 0.0010 to 0.10           |              |    |   |   |   | ○ | Ammo    | R( ) V |
|         | 1000 VDC    | 0.0010 to 0.10           |              |    |   |   |   | ○ | Ammo    | R( ) V |
|         | 1250 VDC    | 0.0010 to 0.051          |              |    |   |   |   | ○ | Ammo    | R( ) V |
|         | 1600 VDC    | 0.0010 to 0.020          |              |    |   |   |   | ○ | Ammo    | R( ) V |
|         | 2000 VDC    | 0.0010 to 0.015          |              |    |   |   |   | ○ | Ammo    | R( ) V |

●Lead Spacing

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

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

### ■ Rating & Dimensions

● Rated voltage : 800 VDC. Capacitance tolerance :  $\pm 3\%$  (H),  $\pm 5\%$  (J)

| Part No.      | Cap.<br>( $\mu$ F) | Dimensions(mm)   |                  |                  |              |          |              |          | Quantity<br>Ammo<br>7.5 mm |
|---------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|----------|----------------------------|
|               |                    | L <sub>max</sub> | T <sub>max</sub> | H <sub>max</sub> |              | F        |              | S        |                            |
|               |                    |                  |                  | Straight         | Crimped lead | Straight | Crimped lead | $\phi$ d |                            |
| ECWH8102□V( ) | 0.0010             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     | 500                        |
| ECWH8112□V( ) | 0.0011             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8122□V( ) | 0.0012             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8132□V( ) | 0.0013             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8152□V( ) | 0.0015             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8162□V( ) | 0.0016             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8182□V( ) | 0.0018             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8202□V( ) | 0.0020             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8222□V( ) | 0.0022             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8242□V( ) | 0.0024             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8272□V( ) | 0.0027             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8302□V( ) | 0.0030             | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8332□V( ) | 0.0033             | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8362□V( ) | 0.0036             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8392□V( ) | 0.0039             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8432□V( ) | 0.0043             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8472□V( ) | 0.0047             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8512□V( ) | 0.0051             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8562□V( ) | 0.0056             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8622□V( ) | 0.0062             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8682□V( ) | 0.0068             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8752□V( ) | 0.0075             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8822□V( ) | 0.0082             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8912□V( ) | 0.0091             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8103□V( ) | 0.010              | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8113□V( ) | 0.011              | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8123□V( ) | 0.012              | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8133□V( ) | 0.013              | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8153□V( ) | 0.015              | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8163□V( ) | 0.016              | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8183□V( ) | 0.018              | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8203□V( ) | 0.020              | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8223□V( ) | 0.022              | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8243□V( ) | 0.024              | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8273□V( ) | 0.027              | 18.0             | 8.0              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     | 400                        |
| ECWH8303□V( ) | 0.030              | 18.0             | 8.5              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH8333□V( ) | 0.033              | 23.0             | 6.5              | 15.0             | 20.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8363□V( ) | 0.036              | 23.0             | 7.0              | 15.5             | 20.5         | 20.0     | 15.0         | 0.80     | 500                        |
| ECWH8393□V( ) | 0.039              | 23.0             | 7.0              | 15.5             | 20.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8433□V( ) | 0.043              | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8473□V( ) | 0.047              | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     | 400                        |
| ECWH8513□V( ) | 0.051              | 23.0             | 8.0              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8563□V( ) | 0.056              | 23.0             | 8.0              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8623□V( ) | 0.062              | 23.0             | 8.5              | 17.0             | 22.0         | 20.0     | 15.0         | 0.80     | 300                        |
| ECWH8683□V( ) | 0.068              | 23.0             | 9.0              | 17.5             | 22.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8753□V( ) | 0.075              | 23.0             | 9.5              | 17.5             | 22.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8823□V( ) | 0.082              | 23.0             | 9.5              | 18.0             | 23.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8913□V( ) | 0.091              | 23.0             | 10.0             | 19.0             | 24.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH8104□V( ) | 0.10               | 23.0             | 10.5             | 19.5             | 24.5         | 20.0     | 15.0         | 0.80     |                            |


 Suffix for lead crimped  
 Cap. tol. code

### ■ Rating & Dimensions

● Rated voltage : 1000 VDC. Capacitance tolerance :  $\pm 3\%$  (H),  $\pm 5\%$  (J)

| Part No.       | Cap.<br>( $\mu$ F) | Dimensions (mm)  |                  |                  |              |          |              |          | Quantity<br>Ammo<br>7.5 mm |
|----------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|----------|----------------------------|
|                |                    | L <sub>max</sub> | T <sub>max</sub> | H <sub>max</sub> |              | F        |              | S        |                            |
|                |                    |                  |                  | Straight         | Crimped lead | Straight | Crimped lead | $\phi$ d |                            |
| ECWH10102□V( ) | 0.0010             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     | 500                        |
| ECWH10112□V( ) | 0.0011             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10122□V( ) | 0.0012             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10132□V( ) | 0.0013             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10152□V( ) | 0.0015             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10162□V( ) | 0.0016             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10182□V( ) | 0.0018             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10202□V( ) | 0.0020             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10222□V( ) | 0.0022             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10242□V( ) | 0.0024             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10272□V( ) | 0.0027             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10302□V( ) | 0.0030             | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10332□V( ) | 0.0033             | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10362□V( ) | 0.0036             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10392□V( ) | 0.0039             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10432□V( ) | 0.0043             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10472□V( ) | 0.0047             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10512□V( ) | 0.0051             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10562□V( ) | 0.0056             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10622□V( ) | 0.0062             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10682□V( ) | 0.0068             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10752□V( ) | 0.0075             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10822□V( ) | 0.0082             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10912□V( ) | 0.0091             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10103□V( ) | 0.010              | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10113□V( ) | 0.011              | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10123□V( ) | 0.012              | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10133□V( ) | 0.013              | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10153□V( ) | 0.015              | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10163□V( ) | 0.016              | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10183□V( ) | 0.018              | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10203□V( ) | 0.020              | 18.0             | 8.0              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     | 400                        |
| ECWH10223□V( ) | 0.022              | 18.0             | 8.5              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10243□V( ) | 0.024              | 18.0             | 8.5              | 15.5             | 20.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10273□V( ) | 0.027              | 18.0             | 9.0              | 16.0             | 21.0         | 15.0     | 10.0         | 0.80     | 300                        |
| ECWH10303□V( ) | 0.030              | 18.0             | 9.5              | 16.5             | 21.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH10333□V( ) | 0.033              | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     | 400                        |
| ECWH10363□V( ) | 0.036              | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10393□V( ) | 0.039              | 23.0             | 8.0              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10433□V( ) | 0.043              | 23.0             | 8.5              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10473□V( ) | 0.047              | 23.0             | 8.5              | 17.0             | 22.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10513□V( ) | 0.051              | 23.0             | 9.0              | 17.5             | 22.5         | 20.0     | 15.0         | 0.80     | 300                        |
| ECWH10563□V( ) | 0.056              | 23.0             | 9.5              | 17.5             | 22.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10623□V( ) | 0.062              | 23.0             | 9.5              | 18.0             | 23.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10683□V( ) | 0.068              | 23.0             | 10.0             | 19.0             | 24.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10753□V( ) | 0.075              | 23.0             | 10.5             | 19.5             | 24.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10823□V( ) | 0.082              | 23.0             | 11.0             | 20.0             | 25.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10913□V( ) | 0.091              | 23.0             | 11.5             | 20.5             | 25.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH10104□V( ) | 0.10               | 23.0             | 12.0             | 21.0             | 26.0         | 20.0     | 15.0         | 0.80     |                            |


 Suffix for lead crimped  
 Cap. tol. code

### ■ Rating & Dimensions

● Rated voltage : 1250 VDC Capacitance tolerance :  $\pm 3\%$  (H),  $\pm 5\%$  (J)

| Part No.       | Cap.<br>( $\mu$ F) | Dimensions (mm)  |                  |                  |              |          |              |          | Quantity<br>Ammo<br>7.5 mm |
|----------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|----------|----------------------------|
|                |                    | L <sub>max</sub> | T <sub>max</sub> | H <sub>max</sub> |              | F        |              | S        |                            |
|                |                    |                  |                  | Straight         | Crimped lead | Straight | Crimped lead | $\phi d$ |                            |
| ECWH12102□V( ) | 0.0010             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     | 500                        |
| ECWH12112□V( ) | 0.0011             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12122□V( ) | 0.0012             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12132□V( ) | 0.0013             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12152□V( ) | 0.0015             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12162□V( ) | 0.0016             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12182□V( ) | 0.0018             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12202□V( ) | 0.0020             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12222□V( ) | 0.0022             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12242□V( ) | 0.0024             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12272□V( ) | 0.0027             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12302□V( ) | 0.0030             | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12332□V( ) | 0.0033             | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12362□V( ) | 0.0036             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12392□V( ) | 0.0039             | 18.0             | 6.0              | 12.5             | 17.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12432□V( ) | 0.0043             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12472□V( ) | 0.0047             | 18.0             | 6.0              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12512□V( ) | 0.0051             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12562□V( ) | 0.0056             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12622□V( ) | 0.0062             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12682□V( ) | 0.0068             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12752□V( ) | 0.0075             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     | 400                        |
| ECWH12822□V( ) | 0.0082             | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12912□V( ) | 0.0091             | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12103□V( ) | 0.010              | 18.0             | 8.0              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12113□V( ) | 0.011              | 18.0             | 8.5              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12123□V( ) | 0.012              | 18.0             | 8.5              | 15.5             | 20.5         | 15.0     | 10.0         | 0.80     | 500                        |
| ECWH12133□V( ) | 0.013              | 18.0             | 9.0              | 15.5             | 20.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12153□V( ) | 0.015              | 18.0             | 9.5              | 16.0             | 21.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH12163□V( ) | 0.016              | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     | 400                        |
| ECWH12183□V( ) | 0.018              | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12203□V( ) | 0.020              | 23.0             | 8.0              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12223□V( ) | 0.022              | 23.0             | 8.5              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12243□V( ) | 0.024              | 23.0             | 8.5              | 17.0             | 22.0         | 20.0     | 15.0         | 0.80     | 300                        |
| ECWH12273□V( ) | 0.027              | 23.0             | 9.0              | 17.5             | 22.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12303□V( ) | 0.030              | 23.0             | 9.5              | 18.0             | 23.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12333□V( ) | 0.033              | 23.0             | 10.0             | 18.5             | 23.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12363□V( ) | 0.036              | 23.0             | 10.0             | 19.0             | 24.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12393□V( ) | 0.039              | 23.0             | 10.5             | 19.5             | 24.5         | 20.0     | 15.0         | 0.80     | —                          |
| ECWH12433□V( ) | 0.043              | 23.0             | 11.0             | 20.0             | 25.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12473□V( ) | 0.047              | 23.0             | 11.5             | 20.5             | 25.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12513□V( ) | 0.051              | 23.0             | 12.0             | 21.0             | 26.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH12563□V( ) | 0.056              | 28.0             | 11.5             | 20.0             | 25.0         | 25.0     | 17.5         | 0.80     |                            |
| ECWH12623□V( ) | 0.062              | 28.0             | 12.0             | 21.0             | 26.0         | 25.0     | 17.5         | 0.80     |                            |
| ECWH12683□V( ) | 0.068              | 28.0             | 12.5             | 21.5             | 26.5         | 25.0     | 17.5         | 0.80     |                            |
| ECWH12753□V( ) | 0.075              | 28.0             | 13.5             | 22.0             | 27.0         | 25.0     | 17.5         | 0.80     |                            |
| ECWH12823□V( ) | 0.082              | 28.0             | 14.0             | 22.5             | 27.5         | 25.0     | 17.5         | 0.80     |                            |
| ECWH12913□V( ) | 0.091              | 28.0             | 14.5             | 23.0             | 28.0         | 25.0     | 17.5         | 0.80     |                            |
| ECWH12104□V( ) | 0.10               | 28.0             | 15.5             | 24.0             | 29.0         | 25.0     | 17.5         | 0.80     |                            |


 Suffix for lead crimped  
 Cap. tol. code

### ■ Rating & Dimensions

● Rated voltage : 1600 VDC Capacitance tolerance :  $\pm 3\%$  (H),  $\pm 5\%$  (J)

| Part No.       | Cap.<br>( $\mu$ F) | Dimensions (mm)  |                  |                  |              |          |              |      | Quantity |
|----------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|------|----------|
|                |                    | L <sub>max</sub> | T <sub>max</sub> | H <sub>max</sub> |              | F        |              | S    | ød       |
|                |                    |                  |                  | Straight         | Crimped lead | Straight | Crimped lead |      |          |
| ECWH16102□V( ) | 0.0010             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 | 500      |
| ECWH16112□V( ) | 0.0011             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16122□V( ) | 0.0012             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16132□V( ) | 0.0013             | 18.0             | 6.5              | 13.0             | 18.0         | 15.0     | 10.0         | 0.80 |          |
| ECWH16152□V( ) | 0.0015             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16162□V( ) | 0.0016             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16182□V( ) | 0.0018             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80 |          |
| ECWH16202□V( ) | 0.0020             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80 |          |
| ECWH16222□V( ) | 0.0022             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16242□V( ) | 0.0024             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16272□V( ) | 0.0027             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80 | 400      |
| ECWH16302□V( ) | 0.0030             | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80 |          |
| ECWH16332□V( ) | 0.0033             | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80 |          |
| ECWH16362□V( ) | 0.0036             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80 | 500      |
| ECWH16392□V( ) | 0.0039             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80 |          |
| ECWH16432□V( ) | 0.0043             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80 |          |
| ECWH16472□V( ) | 0.0047             | 23.0             | 6.5              | 14.5             | 19.5         | 20.0     | 15.0         | 0.80 |          |
| ECWH16512□V( ) | 0.0051             | 23.0             | 6.5              | 15.0             | 20.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16562□V( ) | 0.0056             | 23.0             | 6.5              | 15.0             | 20.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16622□V( ) | 0.0062             | 23.0             | 7.0              | 15.0             | 20.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16682□V( ) | 0.0068             | 23.0             | 7.0              | 15.5             | 20.5         | 20.0     | 15.0         | 0.80 |          |
| ECWH16752□V( ) | 0.0075             | 23.0             | 7.5              | 15.5             | 20.5         | 20.0     | 15.0         | 0.80 | 400      |
| ECWH16822□V( ) | 0.0082             | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16912□V( ) | 0.0091             | 23.0             | 8.0              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16103□V( ) | 0.010              | 23.0             | 8.0              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80 |          |
| ECWH16113□V( ) | 0.011              | 23.0             | 8.5              | 17.0             | 22.0         | 20.0     | 15.0         | 0.80 | 300      |
| ECWH16123□V( ) | 0.012              | 23.0             | 9.0              | 17.0             | 22.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16133□V( ) | 0.013              | 23.0             | 9.0              | 17.5             | 22.5         | 20.0     | 15.0         | 0.80 |          |
| ECWH16153□V( ) | 0.015              | 23.0             | 9.5              | 18.0             | 23.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16163□V( ) | 0.016              | 23.0             | 10.0             | 18.5             | 23.5         | 20.0     | 15.0         | 0.80 |          |
| ECWH16183□V( ) | 0.018              | 23.0             | 10.5             | 19.5             | 24.5         | 20.0     | 15.0         | 0.80 |          |
| ECWH16203□V( ) | 0.020              | 23.0             | 11.0             | 20.0             | 25.0         | 20.0     | 15.0         | 0.80 |          |
| ECWH16223□V( ) | 0.022              | 28.0             | 9.5              | 18.0             | 23.0         | 25.0     | 17.5         | 0.80 |          |
| ECWH16243□V( ) | 0.024              | 28.0             | 10.0             | 18.5             | 23.5         | 25.0     | 17.5         | 0.80 |          |
| ECWH16273□V( ) | 0.027              | 28.0             | 10.5             | 19.5             | 24.5         | 25.0     | 17.5         | 0.80 | —        |
| ECWH16303□V( ) | 0.030              | 28.0             | 11.0             | 20.0             | 25.0         | 25.0     | 17.5         | 0.80 |          |
| ECWH16333□V( ) | 0.033              | 28.0             | 11.5             | 20.5             | 25.5         | 25.0     | 17.5         | 0.80 |          |
| ECWH16363□V( ) | 0.036              | 28.0             | 12.5             | 21.5             | 26.5         | 25.0     | 17.5         | 0.80 |          |
| ECWH16393□V( ) | 0.039              | 28.0             | 13.5             | 22.0             | 27.0         | 25.0     | 17.5         | 0.80 |          |
| ECWH16433□V( ) | 0.043              | 28.0             | 14.5             | 22.5             | 27.5         | 25.0     | 17.5         | 0.80 |          |
| ECWH16473□V( ) | 0.047              | 28.0             | 15.0             | 23.5             | 28.5         | 25.0     | 17.5         | 0.80 |          |
| ECWH16513□V( ) | 0.051              | 28.0             | 15.5             | 24.0             | 29.0         | 25.0     | 17.5         | 0.80 |          |
| ECWH16563□V( ) | 0.056              | 28.0             | 16.0             | 24.5             | 29.5         | 25.0     | 17.5         | 0.80 |          |


 Suffix for lead crimped  
 Cap. tol. code

### ■ Rating & Dimensions

● Rated voltage : 2000 VDC Capacitance tolerance :  $\pm 3\%$  (H),  $\pm 5\%$  (J)

| Part No.       | Cap.<br>( $\mu$ F) | Dimensions (mm)  |                  |                  |              |          |              |          | Quantity<br>Ammo<br>7.5 mm |
|----------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|----------|----------------------------|
|                |                    | L <sub>max</sub> | T <sub>max</sub> | H <sub>max</sub> |              | F        |              | S        |                            |
|                |                    |                  |                  | Straight         | Crimped lead | Straight | Crimped lead | $\phi$ d |                            |
| ECWH20102□V( ) | 0.0010             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     | 500                        |
| ECWH20112□V( ) | 0.0011             | 18.0             | 6.5              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20122□V( ) | 0.0012             | 18.0             | 7.0              | 13.5             | 18.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20132□V( ) | 0.0013             | 18.0             | 7.0              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20152□V( ) | 0.0015             | 18.0             | 7.5              | 14.0             | 19.0         | 15.0     | 10.0         | 0.80     | 400                        |
| ECWH20162□V( ) | 0.0016             | 18.0             | 7.5              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20182□V( ) | 0.0018             | 18.0             | 8.0              | 14.5             | 19.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20202□V( ) | 0.0020             | 18.0             | 8.0              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20222□V( ) | 0.0022             | 18.0             | 8.5              | 15.0             | 20.0         | 15.0     | 10.0         | 0.80     | 300                        |
| ECWH20242□V( ) | 0.0024             | 18.0             | 8.5              | 15.5             | 20.5         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20272□V( ) | 0.0027             | 18.0             | 9.0              | 16.0             | 21.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20302□V( ) | 0.0030             | 18.0             | 9.5              | 16.0             | 21.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20332□V( ) | 0.0033             | 18.0             | 8.5              | 15.5             | 20.5         | 15.0     | 10.0         | 0.80     | 400                        |
| ECWH20362□V( ) | 0.0036             | 18.0             | 9.0              | 15.5             | 20.5         | 15.0     | 10.0         | 0.80     | 300                        |
| ECWH20392□V( ) | 0.0039             | 18.0             | 9.0              | 16.0             | 21.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20432□V( ) | 0.0043             | 18.0             | 9.5              | 16.0             | 21.0         | 15.0     | 10.0         | 0.80     |                            |
| ECWH20472□V( ) | 0.0047             | 23.0             | 7.0              | 15.5             | 20.5         | 20.0     | 15.0         | 0.80     | 500                        |
| ECWH20512□V( ) | 0.0051             | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     | 400                        |
| ECWH20562□V( ) | 0.0056             | 23.0             | 7.5              | 16.0             | 21.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20622□V( ) | 0.0062             | 23.0             | 8.0              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20682□V( ) | 0.0068             | 23.0             | 8.5              | 16.5             | 21.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20752□V( ) | 0.0075             | 23.0             | 9.5              | 18.0             | 23.0         | 20.0     | 15.0         | 0.80     | 300                        |
| ECWH20822□V( ) | 0.0082             | 23.0             | 10.0             | 18.0             | 23.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20912□V( ) | 0.0091             | 23.0             | 10.0             | 19.0             | 24.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20103□V( ) | 0.010              | 23.0             | 10.5             | 19.5             | 24.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20113□V( ) | 0.011              | 23.0             | 11.0             | 20.0             | 25.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20123□V( ) | 0.012              | 23.0             | 11.5             | 20.5             | 25.5         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20133□V( ) | 0.013              | 23.0             | 12.0             | 21.0             | 26.0         | 20.0     | 15.0         | 0.80     |                            |
| ECWH20153□V( ) | 0.015              | 23.0             | 12.0             | 21.5             | 26.5         | 20.0     | 15.0         | 0.80     |                            |

Suffix for lead crimped  
 Cap. tol. code

# Mouser Electronics

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