# Summary of Products

## Electronic Equipment Use

<table>
<thead>
<tr>
<th>Dielectric Series</th>
<th>Appearance</th>
<th>Operating Temp.</th>
<th>Rating</th>
<th>Structure・Feature</th>
<th>Application</th>
</tr>
</thead>
</table>
| **Stacked Metallized**<br>PPS Film Chip Capacitor | ECHU(X) | −55 °C to +125 °C | 0.00010 µF to 0.22 µF 16 V.DC, 50 V.DC | - Non-inductive, Stacked  
- Tight C-Tol.  
- Reflow soldering | High density mounting |
| | ECHU(C) | −55 °C to +105 °C | 0.010 µF to 0.22 µF 100 V.DC | - Non-inductive, Stacked  
- Tight C-Tol.  
- Reflow soldering | High density mounting |
| **Stacked Metallized**<br>PEN Film Chip Capacitor | ECWU(X) | −55 °C to +105 °C | 0.0010 µF to 0.010 µF 100 V.DC | - Non-inductive  
- Reflow soldering | High density mounting |
| | ECWU(C) | −55 °C to +105 °C | 0.0010 µF to 1.0 µF 100 V.DC to 630 V.DC | - Non-inductive  
- Reflow soldering | Ringer circuit telephone  
- PX  
- DC Blocking for xDSL |
| **Stacked Metallized**<br>Plastic Film Chip Capacitor | ECWU(V16) | −55 °C to +85 °C | 0.0010 µF to 0.12 µF 250 V.DC | - Non-inductive  
- Reflow soldering | Ringer circuit telephone  
- PX  
- DC Blocking for xDSL |
| **Metallized Type**<br>Electronic Equipment Use | ECPU(A) | −40 °C to +85 °C | 0.10 µF to 1.0 µF 16 V.DC | - Non-inductive  
- Reflow soldering | Noise suppressor  
- Audio circuit |
| **Metallized Polyester Film Capacitor** | ECQE(F) | −40 °C to +105 °C | 0.010 µF to 10 µF 100 V.DC to 1250 V.DC, 125 V.A.C, 250 V.A.C | - Epoxy resin coating  
- Wide capacitance range | General purpose  
- Noise suppressor |
| | ECQE(B) | −40 °C to +105 °C | 0.010 µF to 4.7 µF 250 V.DC 125 V.A.C | - Epoxy resin coating  
- Miniaturization of ECQE(F) type | General purpose  
- Noise suppressor |
| | ECQE(T) | −40 °C to +105 °C | 0.010 µF to 10 µF 250 V.DC to 630 V.DC, 125 V.A.C, 250 V.A.C | - Epoxy resin coating  
- Excellent moisture resistance | Electric circuit of high humidity equipment |
| **Metallized Polypropylene Film Capacitor** | ECWF(L) | −40 °C to +105 °C | 0.010 µF to 2.4 µF 400 V.DC, 630 V.DC | - Epoxy resin coating  
- Low D.F  
- Excellent moisture resistance | High frequency high current circuit |
| | ECWF(A) | −40 °C to +105 °C | 0.10 µF to 6.8 µF 250 V.DC to 630 V.DC | - Miniaturization of ECWF(L) type  
- Low D.F | Active filtering circuit  
- High frequency high current circuit |
| | ECWFD | −40 °C to +105 °C | 0.1 µF to 4.7 µF 450 V.D.C | - Epoxy resin coating  
- Low D.F  
- Miniaturization of ECWF(A) type | Active fitting circuit  
- High frequency high current circuit |
| | ECWFE | −40 °C to +105 °C | 0.01 µF to 4.7 µF 630 V.DC | - Epoxy resin coating  
- Low D.F  
- Miniaturization of ECWF(A) type | Active fitting circuit  
- High frequency high current circuit |
| **Metallized Polypropylene Film Capacitor** | ECWH(V) | −40 °C to +105 °C | 0.0010 µF to 0.10 µF 1000 V.DC to 3000 V.DC | - Epoxy resin coating  
- Low D.F  
- Small in size | High frequency high current circuit |
| | ECWH(A) | −40 °C to +105 °C | 0.0010 µF to 0.047 µF 800 V.DC, 1600 V.DC | - Epoxy resin coating  
- Low D.F  
- Miniaturization of ECWH(V) type | General resonance circuit |
| | ECWH(C) | −40 °C to +105 °C (+85 °C) | 0.0024 µF to 0.33 µF 630 V.DC to 3000 V.DC | - Epoxy resin coating  
- Low D.F | General resonance circuit  
- Microwave oven  
- IH resonance circuit |
| **Metallized Polypropylene Film Capacitor**<br>NEW | ECQUA | −40 °C to +110 °C | 0.0082 µF to 10.00 µF 275 V.A.C | - Box type  
- UL, CSA, ENEC Approved (Class X2) | Worldwide  
- Noise suppressor for AC line |
| | ECQLB | −40 °C to +110 °C | 0.001 µF to 1.0 µF 300 V.A.C | - Box type  
- UL, CSA, ENEC Approved (Class Y2/X1/Class X1) | Worldwide  
- Noise suppressor for AC line |
| **Metallized Polyester Film Capacitor**<br>NEW | ECQUA | −40 °C to +100 °C | 0.0010 µF to 2.2 µF 275 V.A.C (250 V.A.C) | - Box type  
- UL, CSA, VDE Approved (Class X2/Y2) | Worldwide  
- Noise suppressor for AC line |
| | ECQUA | −40 °C to +100 °C | 0.010 µF to 1.0 µF 300 V.A.C (250 V.A.C) | - Equipped with a safety mechanism  
- UL, CSA, VDE, ENEC Approved (Class X1) | Worldwide  
- Noise suppressor for AC line |

- Operating temp.: Including temperature-rise on unit surface.  
- Refer to each product page for details.  

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31-Aug-20
# Summary of Products

## AC Motor Use

<table>
<thead>
<tr>
<th>Dielectric</th>
<th>Series</th>
<th>Appearance</th>
<th>Operating Temp</th>
<th>Rating</th>
<th>Structure-Feature</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metallized Polyester Film Capacitors for Noise Suppression of Automobile</td>
<td>ECQE</td>
<td></td>
<td>–40 ℃ to +130 ℃</td>
<td>0.47 μF to 2.2 μF, 4.7 μF</td>
<td>Box type</td>
<td>Noise suppressor for automobile</td>
</tr>
<tr>
<td>Metallized Polypropylene Film Capacitors</td>
<td>ECWG</td>
<td></td>
<td>–40 ℃ to +110 ℃</td>
<td>1.0 μF to 8.0 μF</td>
<td>AEC-Q200 compliant, High safety (with safety function), Excellent moisture resistance, High thermal shock resistance</td>
<td>xEV charging circuit, DC/DC, AC/DC converter (smoothing, PFC)</td>
</tr>
<tr>
<td>Metallized Polypropylene Film Capacitors</td>
<td>ECQUA</td>
<td></td>
<td>–40 ℃ to +110 ℃</td>
<td>0.1 μF to 10.0 μF</td>
<td>AEC-Q200 compliant, High safety (with safety function), Excellent moisture resistance, High thermal shock resistance</td>
<td>xEV charging circuit, AC/DC converter (Noise suppression)</td>
</tr>
<tr>
<td>DC-Link Film Capacitor</td>
<td>Type1</td>
<td></td>
<td>–40 ℃ to +105 ℃</td>
<td>581 μF</td>
<td>High safety, Self-healing and Self-protecting function built in, No catastrophic failure upon natural end of life due to inbuilt fuse function</td>
<td>Any automotive and/or other application requiring DC Linkage</td>
</tr>
<tr>
<td>EZPE</td>
<td></td>
<td></td>
<td>–40 ℃ to +85 ℃</td>
<td>10 μF to 110 μF</td>
<td>High safety (with safety function), Long product life, High reliability, Low loss, Low ESR, Flame retardant</td>
<td>DC filtering, DC link circuit</td>
</tr>
<tr>
<td>EZPE (Low profile type)</td>
<td></td>
<td></td>
<td>–40 ℃ to +85 ℃</td>
<td>29 μF to 66 μF, 12 μF to 10 μF</td>
<td>High safety (with safety function), Long product life, High reliability, High moisture resistance, Flame retardant</td>
<td>Solar inverters, Micro inverters, Wind power generation, Industrial power supplies, Inverter circuit in appliances (Air Conditioners etc.)</td>
</tr>
<tr>
<td>EZPQ</td>
<td></td>
<td></td>
<td>–40 ℃ to +105 ℃</td>
<td>12 μF to 36 μF, 1 μF to 35 μF</td>
<td>High safety (with safety function), Long product life, High reliability, Low loss, Low ESR, Flame retardant</td>
<td>AC Filter</td>
</tr>
<tr>
<td>EZPV</td>
<td></td>
<td></td>
<td>–40 ℃ to +105 ℃</td>
<td>3 μF to 110 μF</td>
<td>High Safety (with safety function), Long product life, High reliability, Low loss, Low ESR, Flame retardant (Case and sealing resin), AEC-Q200 compliant (For automotive Part No.)</td>
<td>For DC filtering, DC link circuit, Solar inverters, Wind power generation, Industrial power supplies, Inverter circuit in appliances, On board charger</td>
</tr>
</tbody>
</table>

*Operating temp.: Including temperature-rise on unit surface.
*Refer to each product page for details.

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## Automotive, Industrial and Infrastructure Use

<table>
<thead>
<tr>
<th>Dielectric</th>
<th>Series</th>
<th>Appearance</th>
<th>Operating Temp</th>
<th>Rating</th>
<th>Structure-Feature</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metallized Polyester Film Capacitors</td>
<td>AMF</td>
<td></td>
<td>–25 ℃ to +70 ℃</td>
<td>10 μF to 40 μF, 180 V.AC to 440 V.AC</td>
<td>High safety (with safety function), High reliability, Small size, lightness, and low loss</td>
<td>Motor and compressor (for running)</td>
</tr>
<tr>
<td>DMF</td>
<td></td>
<td></td>
<td>–25 ℃ to +70 ℃</td>
<td>10 μF to 60 μF, 180 V.AC to 450 V.AC</td>
<td>High safety (with safety device), High reliability, High reliability, standard approval, Small size, lightness, and low loss</td>
<td>Motor and compressor (for running)</td>
</tr>
<tr>
<td>PMF/SMF</td>
<td></td>
<td></td>
<td>–25 ℃ to +70 ℃</td>
<td>0.5 μF to 65 μF, 150 V.AC to 500 V.AC</td>
<td>High safety (with safety function), High reliability, High reliability, standard approval, Small size, lightness, and low loss</td>
<td>Motor and small compressor (for running)</td>
</tr>
<tr>
<td>EZPQ</td>
<td></td>
<td></td>
<td>–40 ℃ to +85 ℃</td>
<td>29 μF to 66 μF, 12 μF to 10 μF</td>
<td>High safety (with safety function), Long product life, High reliability, High moisture resistance, Flame retardant</td>
<td>Solar inverters, Micro inverters, Wind power generation, Industrial power supplies, Inverter circuit in appliances (Air Conditioners etc.)</td>
</tr>
<tr>
<td>EZPV</td>
<td></td>
<td></td>
<td>–40 ℃ to +105 ℃</td>
<td>3 μF to 110 μF</td>
<td>High Safety (with safety function), Long product life, High reliability, Low loss, Low ESR, Flame retardant (Case and sealing resin), AEC-Q200 compliant (For automotive Part No.)</td>
<td>For DC filtering, DC link circuit, Solar inverters, Wind power generation, Industrial power supplies, Inverter circuit in appliances, On board charger</td>
</tr>
</tbody>
</table>

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