

Metallized Polypropylene Film Capacitor

Type: **ECWF(L)**

Designed for high frequency and current applications.

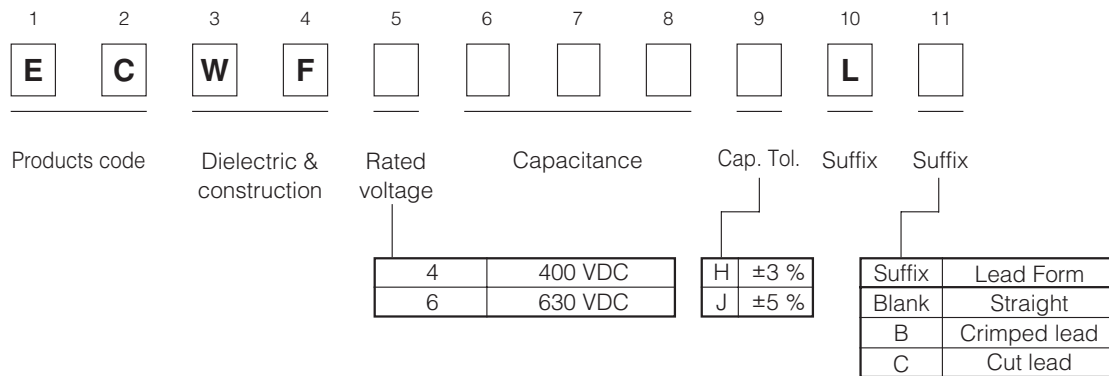
■ Features

- Small size
- Excellent frequency characteristics
- Low loss
- 85 °C, 85 % RH, W.V.×1.0 for 500 hours
- RoHS directive compliant

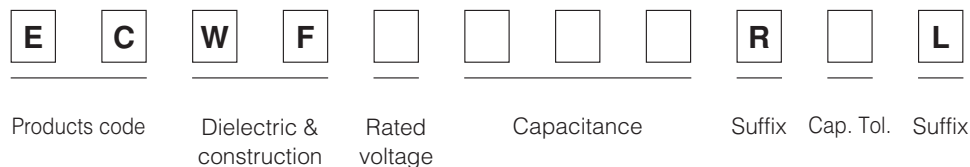
■ Recommended Applications

- Lighting
- High frequency and high current circuits
(TVs, Monitors, Power Supplies, etc.)

■ Explanation of Part Numbers



● Explanation of Part Numbers for Odd Size Taping

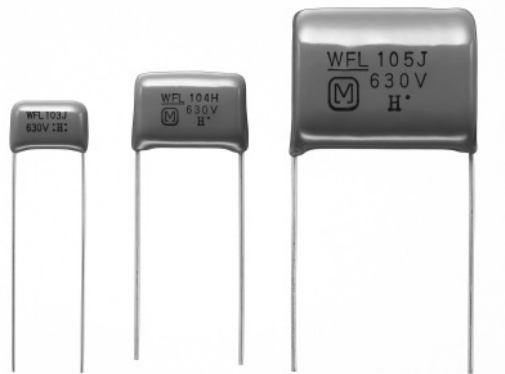


■ Specifications

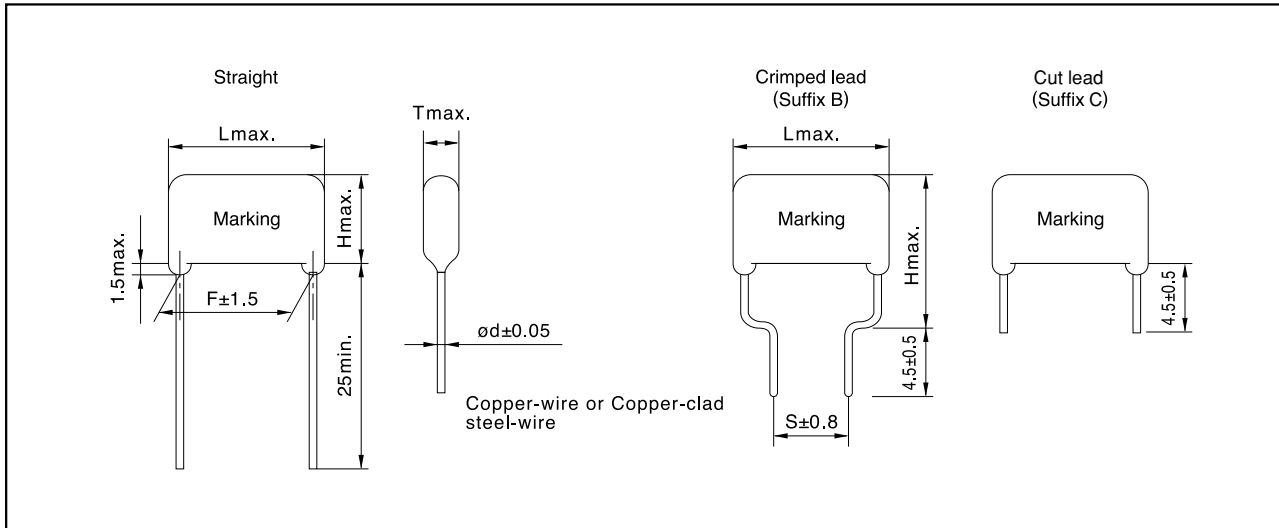
| | | |
|--|--|--------------------|
| Category temp. range (Including temperature-rise on unit surface) | -40 °C to +105 °C | |
| Rated voltage | 400 VDC, 630 VDC | |
| Capacitance range | 400 VDC | 0.022 uF to 2.4 uF |
| | 630 VDC | 0.010 uF to 1.3 uF |
| Capacitance tolerance | ±3 % (H), ±5 % (J) | |
| Withstand voltage | Between terminals : Rated voltage(VDC)×150 % 60 s | |
| Dissipation factor (tan δ) | tan δ ≤ 0.05% (20 °C, 1kHz) | |
| | tan δ ≤ 0.20% (20 °C, 10kHz) | |
| Insulation resistance (IR) | C ≤ 0.33 uF : IR ≥ 9000 MΩ (20 °C, 100 VDC, 60 s for 400 VDC) | |
| | C > 0.33 uF : IR ≥ 3000 MΩ · uF (20 °C, 500 VDC, 60 s for 630 VDC) | |

* 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".

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.



■ Dimensions in mm (not to scale)

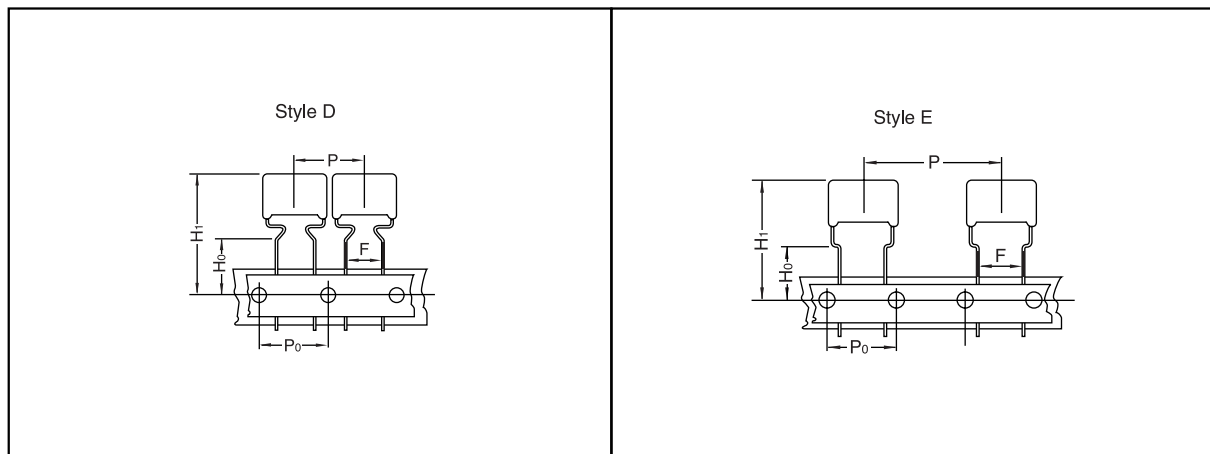


■ Packaging Specification for Bulk Package

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 | B | C | D | E | | |
| ECWF(L) | 400 VDC | 0.022 to 0.091 | | | | | ○ | | Ammo | R() L |
| | | 0.10 to 1.0 | | | | | ○ | | Ammo | R() L |
| | 630 VDC | 0.010 to 0.043 | | | | | ○ | | Ammo | R() L |
| | | 0.047 to 0.43 | | | | | ○ | | Ammo | R() L |

● Lead Spacing

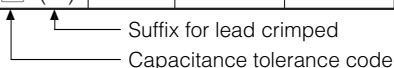
| Style | Lead Spacing |
|-------|--------------|
| D | 7.5 mm |
| E | 7.5 mm |

Metallized Film

■ Rating, Dimensions & Quantity/Ammo Box

● Type ECWF(L) Rated voltage : 400 VDC

| Part No. | Cap. (μ F) | Dimensions (mm) | | | | | | | Min. order Q'ty | | |
|---------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|-----|-----------------|-----------------|------|
| | | L ^{max} | T ^{max} | H ^{max} | | F | | S | ϕ d | Taping 7.5mm | Bulk |
| | | | | Straight | Crimped lead | Straight | Crimped lead | | | | |
| ECWF4223□L() | 0.022 | 12.5 | 5.8 | 8.6 | 13.6 | 10.0 | 7.5 | 0.6 | 1100 | 500 | |
| ECWF4243□L() | 0.024 | 12.5 | 6.0 | 8.8 | 13.8 | 10.0 | 7.5 | 0.6 | | | |
| ECWF4273□L() | 0.027 | 12.5 | 6.2 | 9.0 | 14.0 | 10.0 | 7.5 | 0.6 | 1000 | | |
| ECWF4303□L() | 0.030 | 12.5 | 6.4 | 9.3 | 14.3 | 10.0 | 7.5 | 0.6 | | | |
| ECWF4333□L() | 0.033 | 12.5 | 6.7 | 9.5 | 14.5 | 10.0 | 7.5 | 0.6 | 900 | | |
| ECWF4363□L() | 0.036 | 12.5 | 5.7 | 8.4 | 13.4 | 10.0 | 7.5 | 0.6 | | | |
| ECWF4393□L() | 0.039 | 12.5 | 5.8 | 8.6 | 13.6 | 10.0 | 7.5 | 0.6 | 1100 | | |
| ECWF4433□L() | 0.043 | 12.5 | 6.0 | 8.8 | 13.8 | 10.0 | 7.5 | 0.6 | | | |
| ECWF4473□L() | 0.047 | 12.5 | 6.2 | 9.0 | 14.0 | 10.0 | 7.5 | 0.6 | 1000 | | |
| ECWF4513□L() | 0.051 | 12.5 | 6.4 | 9.2 | 14.2 | 10.0 | 7.5 | 0.6 | | | |
| ECWF4563□L() | 0.056 | 12.5 | 6.6 | 9.4 | 14.4 | 10.0 | 7.5 | 0.6 | 900 | | |
| ECWF4623□L() | 0.062 | 13.0 | 6.8 | 9.6 | 14.6 | 10.0 | 7.5 | 0.8 | | | |
| ECWF4683□L() | 0.068 | 13.0 | 7.0 | 9.9 | 14.9 | 10.0 | 7.5 | 0.8 | 800 | | |
| ECWF4753□L() | 0.075 | 13.0 | 7.3 | 10.1 | 15.1 | 10.0 | 7.5 | 0.8 | | | |
| ECWF4823□L() | 0.082 | 13.0 | 7.5 | 10.4 | 15.4 | 10.0 | 7.5 | 0.8 | 500 | | |
| ECWF4913□L() | 0.091 | 13.0 | 7.8 | 10.7 | 15.7 | 10.0 | 7.5 | 0.8 | | | |
| ECWF4104□L() | 0.10 | 15.5 | 6.5 | 11.0 | 16.0 | 12.5 | 7.5 | 0.8 | 400 | | |
| ECWF4114□L() | 0.11 | 15.5 | 6.8 | 11.3 | 16.3 | 12.5 | 7.5 | 0.8 | | | |
| ECWF4124□L() | 0.12 | 15.5 | 7.0 | 11.5 | 16.5 | 12.5 | 7.5 | 0.8 | 300 | | |
| ECWF4134□L() | 0.13 | 15.5 | 7.2 | 11.8 | 16.8 | 12.5 | 7.5 | 0.8 | | | |
| ECWF4154□L() | 0.15 | 15.5 | 7.6 | 12.2 | 17.2 | 12.5 | 7.5 | 0.8 | 200 | | |
| ECWF4164□L() | 0.16 | 15.5 | 7.8 | 12.4 | 17.4 | 12.5 | 7.5 | 0.8 | | | |
| ECWF4184□L() | 0.18 | 15.5 | 8.2 | 12.8 | 17.8 | 12.5 | 7.5 | 0.8 | 300 | | |
| ECWF4204□L() | 0.20 | 15.5 | 8.6 | 13.3 | 18.3 | 12.5 | 7.5 | 0.8 | | | |
| ECWF4224□L() | 0.22 | 15.5 | 9.0 | 13.6 | 18.6 | 12.5 | 7.5 | 0.8 | 200 | | |
| ECWF4244□L() | 0.24 | 18.0 | 8.3 | 13.0 | 18.0 | 15.0 | 10.0 | 0.8 | | | |
| ECWF4274□L() | 0.27 | 18.0 | 8.8 | 13.4 | 18.4 | 15.0 | 10.0 | 0.8 | 300 | | |
| ECWF4304□L() | 0.30 | 18.0 | 9.2 | 13.9 | 18.9 | 15.0 | 10.0 | 0.8 | | | |
| ECWF4334□L() | 0.33 | 18.0 | 9.6 | 14.3 | 19.3 | 15.0 | 10.0 | 0.8 | 200 | | |
| ECWF4364□L() | 0.36 | 18.0 | 9.9 | 14.7 | 19.7 | 15.0 | 10.0 | 0.8 | | | |
| ECWF4394□L() | 0.39 | 18.0 | 10.3 | 15.1 | 20.1 | 15.0 | 10.0 | 0.8 | 300 | | |
| ECWF4434□L() | 0.43 | 18.0 | 10.7 | 15.6 | 20.6 | 15.0 | 10.0 | 0.8 | | | |
| ECWF4474□L() | 0.47 | 18.0 | 11.2 | 16.1 | 21.1 | 15.0 | 10.0 | 0.8 | 200 | | |
| ECWF4514□L() | 0.51 | 20.5 | 10.3 | 16.8 | 21.8 | 17.5 | 12.5 | 0.8 | | | |
| ECWF4564□L() | 0.56 | 20.5 | 10.7 | 17.3 | 22.3 | 17.5 | 12.5 | 0.8 | 300 | | |
| ECWF4624□L() | 0.62 | 20.5 | 11.3 | 17.9 | 22.9 | 17.5 | 12.5 | 0.8 | | | |
| ECWF4684□L() | 0.68 | 20.5 | 11.8 | 18.5 | 23.5 | 17.5 | 12.5 | 0.8 | 200 | | |
| ECWF4754□L() | 0.75 | 20.5 | 12.3 | 19.1 | 24.1 | 17.5 | 12.5 | 0.8 | | | |
| ECWF4824□L() | 0.82 | 23.0 | 11.8 | 18.5 | 23.5 | 20.0 | 12.5 | 0.8 | — | | |
| ECWF4914□L() | 0.91 | 23.0 | 12.4 | 19.2 | 24.2 | 20.0 | 12.5 | 0.8 | | | |
| ECWF4105□L() | 1.0 | 23.0 | 13.0 | 19.8 | 24.8 | 20.0 | 12.5 | 0.8 | — | | |
| ECWF4115□L() | 1.1 | 23.0 | 13.6 | 20.5 | 25.5 | 20.0 | 12.5 | 0.8 | | | |
| ECWF4125□L() | 1.2 | 28.0 | 12.3 | 19.1 | 24.1 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF4135□L() | 1.3 | 28.0 | 12.8 | 19.6 | 24.6 | 25.0 | 17.5 | 0.8 | | | |
| ECWF4155□L() | 1.5 | 28.0 | 13.7 | 20.7 | 25.7 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF4165□L() | 1.6 | 28.0 | 14.2 | 21.2 | 26.2 | 25.0 | 17.5 | 0.8 | | | |
| ECWF4185□L() | 1.8 | 28.0 | 15.2 | 22.2 | 27.2 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF4205□L() | 2.0 | 28.0 | 16.0 | 23.1 | 28.1 | 25.0 | 17.5 | 0.8 | | | |
| ECWF4225□L() | 2.2 | 28.0 | 16.8 | 24.0 | 29.0 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF4245□L() | 2.4 | 28.0 | 17.5 | 24.8 | 29.8 | 25.0 | 17.5 | 0.8 | | | |



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■ Rating, Dimensions & Quantity/Ammo Box

● Type ECWF(L) Rated voltage : 630 VDC

| Part No. | Cap. (μ F) | Dimensions (mm) | | | | | | | Min. order Q'ty | | |
|---------------|--------------------|------------------|------------------|------------------|--------------|----------|--------------|-----|-----------------|-----------------|------|
| | | L _{max} | T _{max} | H _{max} | | F | | S | ϕ d | Taping 7.5mm | Bulk |
| | | | | Straight | Crimped lead | Straight | Crimped lead | | | | |
| ECWF6103□L() | 0.010 | 12.5 | 5.2 | 8.0 | 13.0 | 10.0 | 7.5 | 0.6 | 1200 | | |
| ECWF6113□L() | 0.011 | 12.5 | 5.4 | 8.2 | 13.2 | 10.0 | 7.5 | 0.6 | | | |
| ECWF6123□L() | 0.012 | 12.5 | 5.5 | 8.3 | 13.3 | 10.0 | 7.5 | 0.6 | | | |
| ECWF6133□L() | 0.013 | 12.5 | 5.6 | 8.5 | 13.5 | 10.0 | 7.5 | 0.6 | 1100 | | |
| ECWF6153□L() | 0.015 | 12.5 | 5.9 | 8.7 | 13.7 | 10.0 | 7.5 | 0.6 | | | |
| ECWF6163□L() | 0.016 | 12.5 | 6.0 | 8.9 | 13.9 | 10.0 | 7.5 | 0.6 | | | |
| ECWF6183□L() | 0.018 | 12.5 | 6.2 | 9.1 | 14.1 | 10.0 | 7.5 | 0.6 | 1000 | | |
| ECWF6203□L() | 0.020 | 12.5 | 6.5 | 9.3 | 14.3 | 10.0 | 7.5 | 0.6 | | | |
| ECWF6223□L() | 0.022 | 12.5 | 6.2 | 9.0 | 14.0 | 10.0 | 7.5 | 0.6 | | | |
| ECWF6243□L() | 0.024 | 12.5 | 6.4 | 9.2 | 14.2 | 10.0 | 7.5 | 0.6 | 900 | | |
| ECWF6273□L() | 0.027 | 13.0 | 6.6 | 9.5 | 14.5 | 10.0 | 7.5 | 0.8 | | | |
| ECWF6303□L() | 0.030 | 13.0 | 6.9 | 9.7 | 14.7 | 10.0 | 7.5 | 0.8 | | | |
| ECWF6333□L() | 0.033 | 13.0 | 7.1 | 10.0 | 15.0 | 10.0 | 7.5 | 0.8 | 800 | | |
| ECWF6363□L() | 0.036 | 13.0 | 7.3 | 10.2 | 15.2 | 10.0 | 7.5 | 0.8 | | | |
| ECWF6393□L() | 0.039 | 13.0 | 7.6 | 10.4 | 15.4 | 10.0 | 7.5 | 0.8 | | | |
| ECWF6433□L() | 0.043 | 13.0 | 7.9 | 10.7 | 15.7 | 10.0 | 7.5 | 0.8 | 500 | | |
| ECWF6473□L() | 0.047 | 15.5 | 6.4 | 10.8 | 15.8 | 12.5 | 7.5 | 0.8 | | | |
| ECWF6513□L() | 0.051 | 15.5 | 6.6 | 11.0 | 16.0 | 12.5 | 7.5 | 0.8 | | | |
| ECWF6563□L() | 0.056 | 15.5 | 6.8 | 11.2 | 16.2 | 12.5 | 7.5 | 0.8 | 400 | | |
| ECWF6623□L() | 0.062 | 15.5 | 7.1 | 11.5 | 16.5 | 12.5 | 7.5 | 0.8 | | | |
| ECWF6683□L() | 0.068 | 15.5 | 7.4 | 11.8 | 16.8 | 12.5 | 7.5 | 0.8 | | | |
| ECWF6753□L() | 0.075 | 15.5 | 7.7 | 12.1 | 17.1 | 12.5 | 7.5 | 0.8 | 300 | | |
| ECWF6823□L() | 0.082 | 15.5 | 8.0 | 12.4 | 17.4 | 12.5 | 7.5 | 0.8 | | | |
| ECWF6913□L() | 0.091 | 15.5 | 8.3 | 12.7 | 17.7 | 12.5 | 7.5 | 0.8 | | | |
| ECWF6104□L() | 0.10 | 18.0 | 7.7 | 12.1 | 17.1 | 15.0 | 10.0 | 0.8 | 200 | | |
| ECWF6114□L() | 0.11 | 18.0 | 8.0 | 12.4 | 17.4 | 15.0 | 10.0 | 0.8 | | | |
| ECWF6124□L() | 0.12 | 18.0 | 8.3 | 12.7 | 17.7 | 15.0 | 10.0 | 0.8 | | | |
| ECWF6134□L() | 0.13 | 18.0 | 8.5 | 13.0 | 18.0 | 15.0 | 10.0 | 0.8 | 300 | | |
| ECWF6154□L() | 0.15 | 18.0 | 9.1 | 13.5 | 18.5 | 15.0 | 10.0 | 0.8 | | | |
| ECWF6164□L() | 0.16 | 18.0 | 9.3 | 13.8 | 18.8 | 15.0 | 10.0 | 0.8 | | | |
| ECWF6184□L() | 0.18 | 18.0 | 9.8 | 14.2 | 19.1 | 15.0 | 10.0 | 0.8 | 200 | | |
| ECWF6204□L() | 0.20 | 18.0 | 10.3 | 14.7 | 19.7 | 15.0 | 10.0 | 0.8 | | | |
| ECWF6224□L() | 0.22 | 18.0 | 10.8 | 15.5 | 20.5 | 15.0 | 10.0 | 0.8 | | | |
| ECWF6244□L() | 0.24 | 18.0 | 11.2 | 15.9 | 20.9 | 15.0 | 10.0 | 0.8 | 300 | | |
| ECWF6274□L() | 0.27 | 20.5 | 10.4 | 16.7 | 21.7 | 17.5 | 12.5 | 0.8 | | | |
| ECWF6304□L() | 0.30 | 20.5 | 10.9 | 17.2 | 22.2 | 17.5 | 12.5 | 0.8 | | | |
| ECWF6334□L() | 0.33 | 20.5 | 11.4 | 17.7 | 22.7 | 17.5 | 12.5 | 0.8 | 200 | | |
| ECWF6364□L() | 0.36 | 20.5 | 11.9 | 18.5 | 23.5 | 17.5 | 12.5 | 0.8 | | | |
| ECWF6394□L() | 0.39 | 20.5 | 12.4 | 19.0 | 24.0 | 17.5 | 12.5 | 0.8 | | | |
| ECWF6434□L() | 0.43 | 20.5 | 13.0 | 19.5 | 24.5 | 17.5 | 12.5 | 0.8 | — | | |
| ECWF6474□L() | 0.47 | 20.5 | 13.5 | 20.1 | 25.1 | 17.5 | 12.5 | 0.8 | | | |
| ECWF6514□L() | 0.51 | 28.0 | 11.1 | 17.3 | 22.3 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6564□L() | 0.56 | 28.0 | 11.6 | 17.8 | 22.8 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF6624□L() | 0.62 | 28.0 | 12.1 | 18.7 | 23.7 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6684□L() | 0.68 | 28.0 | 12.7 | 19.3 | 24.3 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6754□L() | 0.75 | 28.0 | 13.3 | 19.9 | 24.9 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF6824□L() | 0.82 | 28.0 | 13.9 | 20.5 | 25.5 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6914□L() | 0.91 | 28.0 | 14.6 | 21.2 | 26.2 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6105□L() | 1.0 | 28.0 | 15.5 | 22.3 | 27.3 | 25.0 | 17.5 | 0.8 | — | | |
| ECWF6115□L() | 1.1 | 28.0 | 16.3 | 23.0 | 28.0 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6125□L() | 1.2 | 28.0 | 17.0 | 23.7 | 28.7 | 25.0 | 17.5 | 0.8 | | | |
| ECWF6135□L() | 1.3 | 28.0 | 17.6 | 24.4 | 29.4 | 25.0 | 17.5 | 0.8 | — | | |

— Suffix for lead crimped

 — Capacitance tolerance code

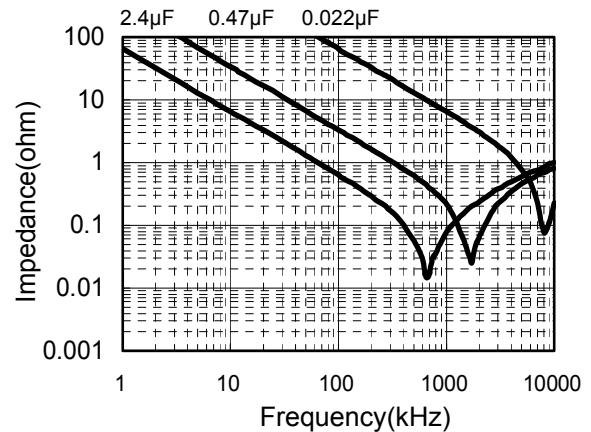
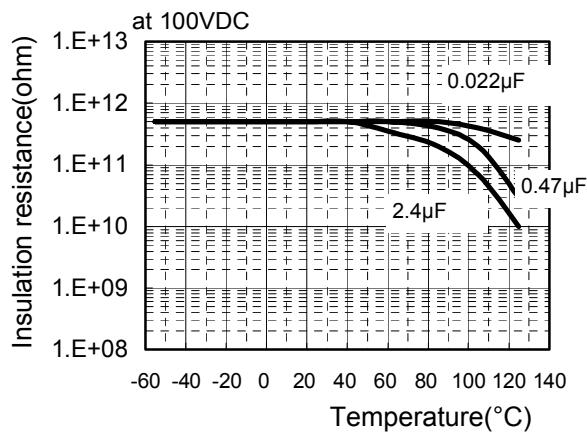
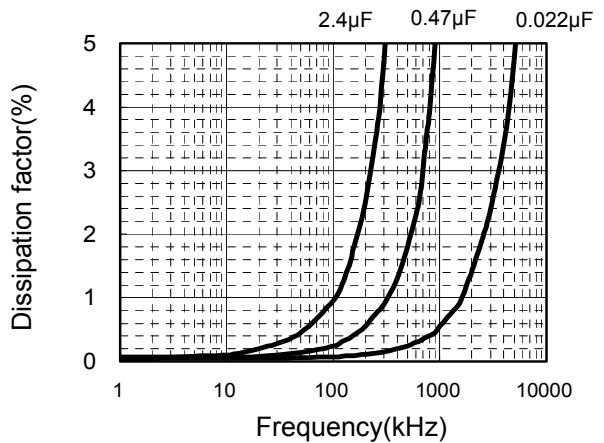
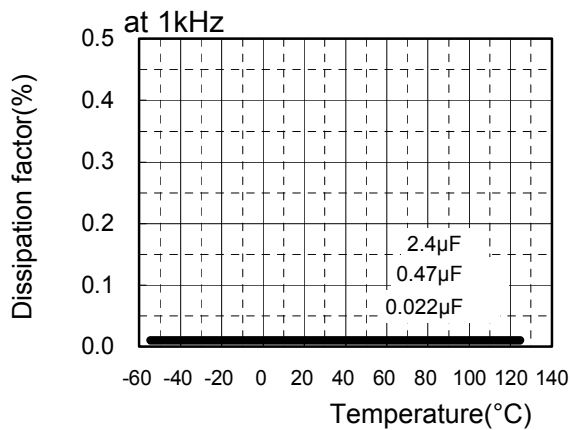
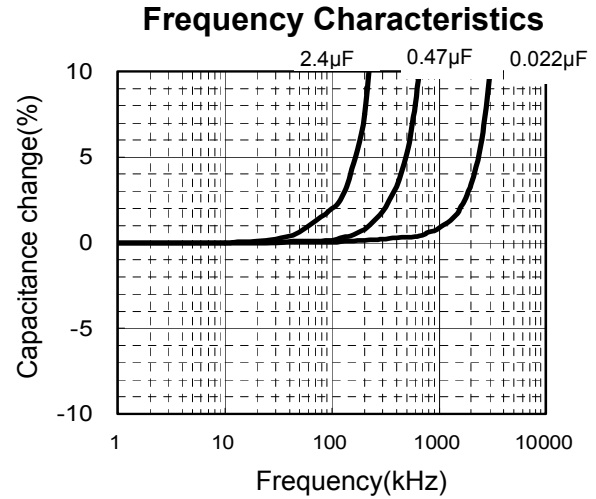
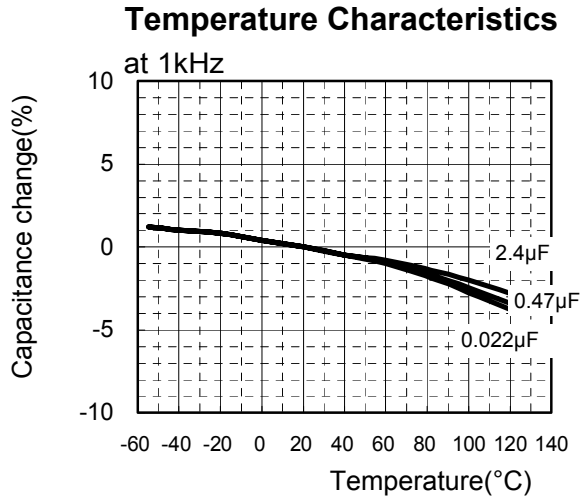
Metallized Film

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ECWF(L) Type 400VDC series (Metallized Polypropylene Film)

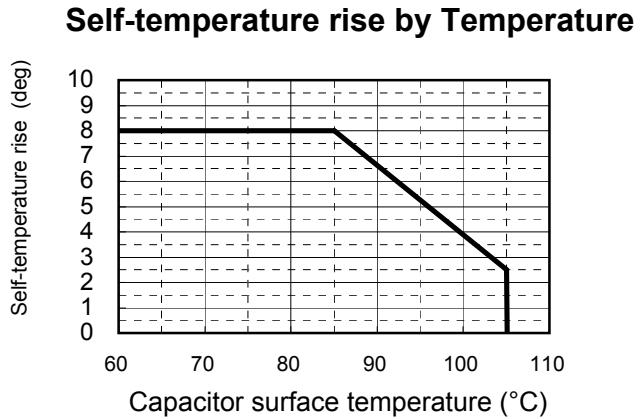
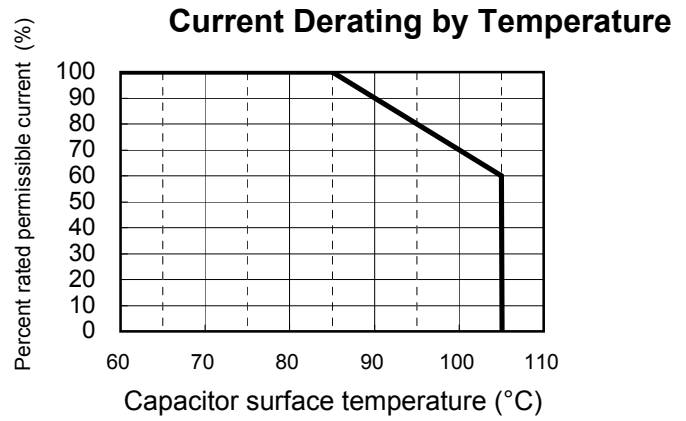
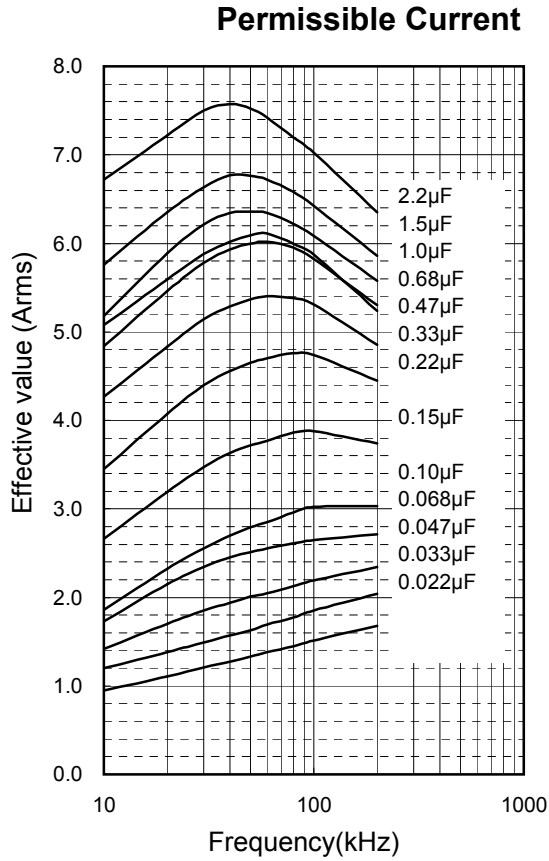
Electrical Characteristics <Typical Data >





ECWF(L) Type 400VDC series (Metallized Polypropylene Film)

Applicable Specifications



Pulse Handling Capability (dv/dt)

(Max 10000cycles)

| Capacitance Value(µF) | code | dV/dt (V/µs) | Current(0-P) (A) | Capacitance Value(µF) | code | dV/dt (V/µs) | Current(0-P) (A) |
|-----------------------|------|--------------|------------------|-----------------------|------|--------------|------------------|
| 0.022 | 223 | 412 | 9.1 | 0.27 | 274 | 154 | 41.6 |
| 0.027 | 273 | 412 | 11.1 | 0.33 | 334 | 154 | 50.8 |
| 0.033 | 333 | 412 | 13.6 | 0.39 | 394 | 154 | 60.1 |
| 0.039 | 393 | 283 | 11.0 | 0.47 | 474 | 154 | 72.4 |
| 0.047 | 473 | 283 | 13.3 | 0.56 | 564 | 136 | 76.2 |
| 0.056 | 563 | 283 | 15.8 | 0.68 | 684 | 136 | 92.5 |
| 0.068 | 683 | 283 | 19.2 | 0.82 | 824 | 113 | 92.7 |
| 0.082 | 823 | 283 | 23.2 | 1.00 | 105 | 113 | 113.0 |
| 0.10 | 104 | 200 | 20.0 | 1.20 | 125 | 85 | 102.0 |
| 0.12 | 124 | 200 | 24.0 | 1.50 | 155 | 85 | 127.5 |
| 0.15 | 154 | 200 | 30.0 | 1.80 | 185 | 85 | 153.0 |
| 0.18 | 184 | 200 | 36.0 | 2.20 | 225 | 85 | 187.0 |
| 0.22 | 224 | 200 | 44.0 | 2.40 | 245 | 85 | 204.0 |

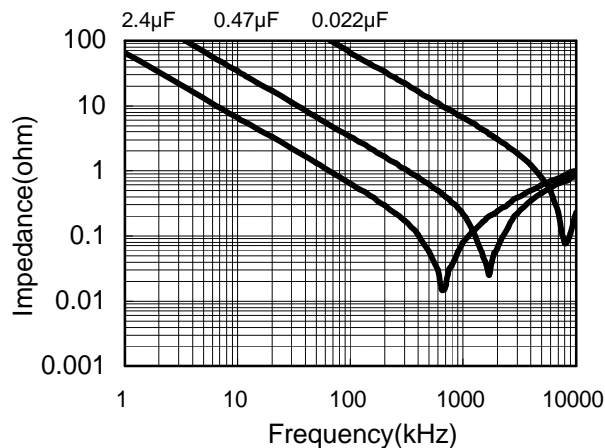
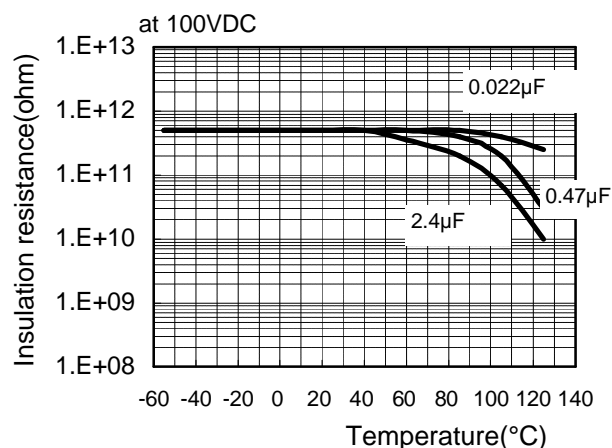
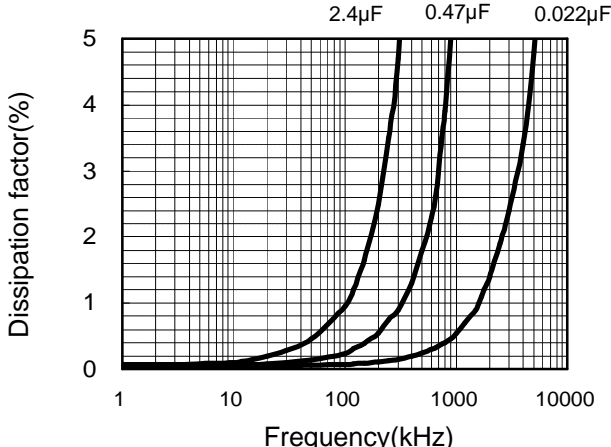
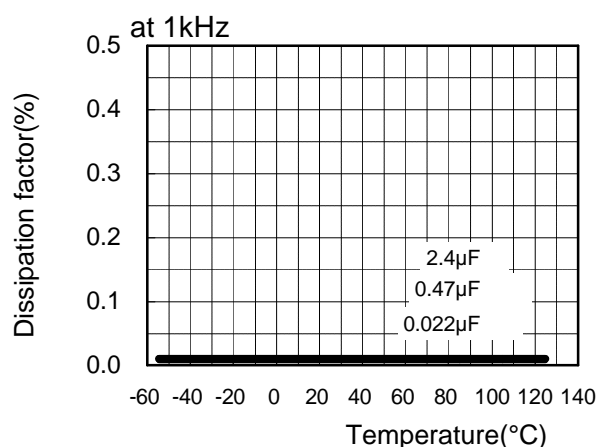
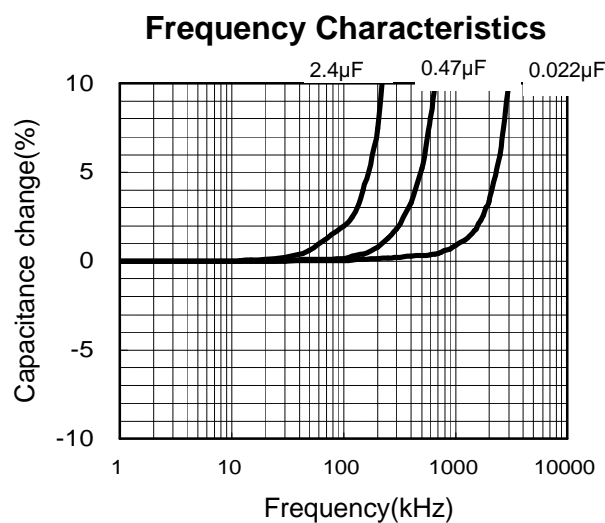
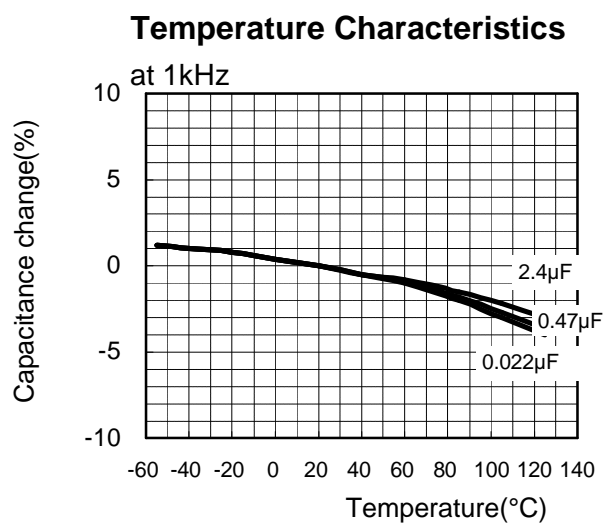
* Please consult Panasonic if your condition exceeds the above

*When you use this product, peak voltage must not exceed DC rated voltage.

*The current(0-P) value is calculated using nominal capacitance.

ECWF(L) Type 450VDC series (Metallized Polypropylene Film)

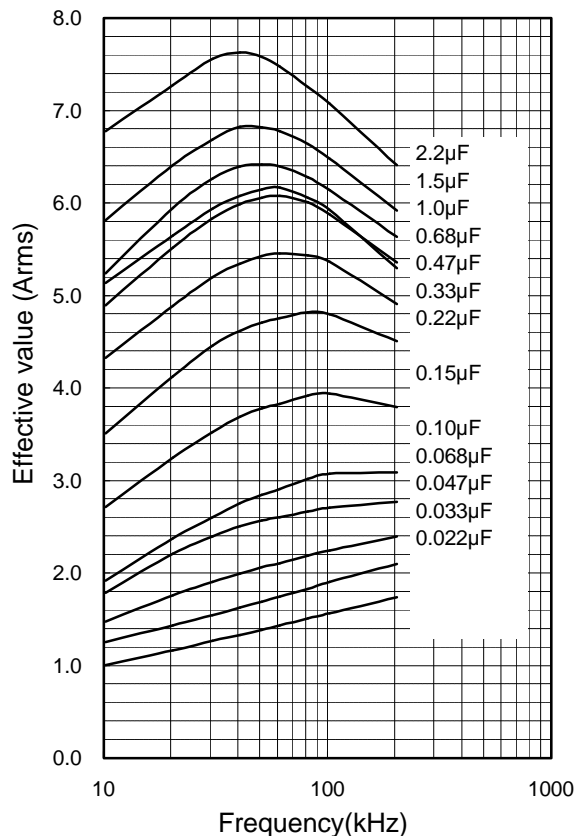
Electrical Characteristics <Typical Data >



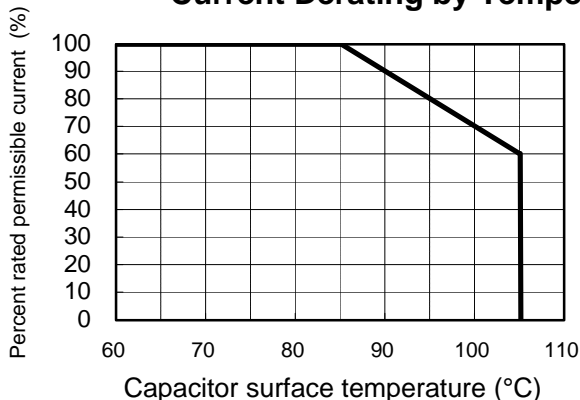
ECWF(L) Type 450VDC series (Metallized Polypropylene Film)

Applicable Specifications

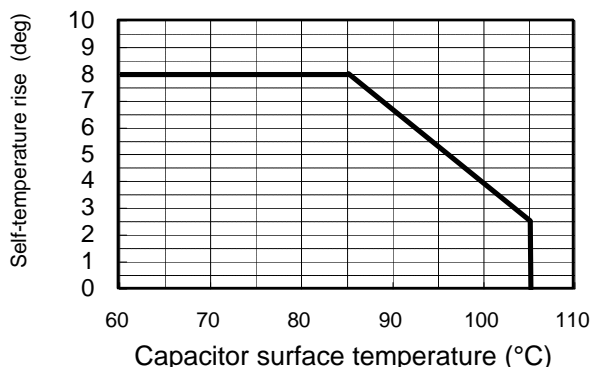
Permissible Current



Current Derating by Temperature



Self-temperature rise by Temperature



Caution : When capacitance is 1.1µF or more, use at 85 ° C or less in temperature.

**Pulse Handling Capability (dv/dt)
(Max 10000cycles)**

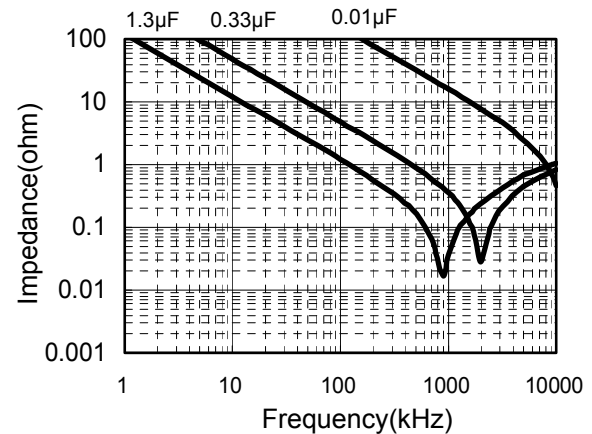
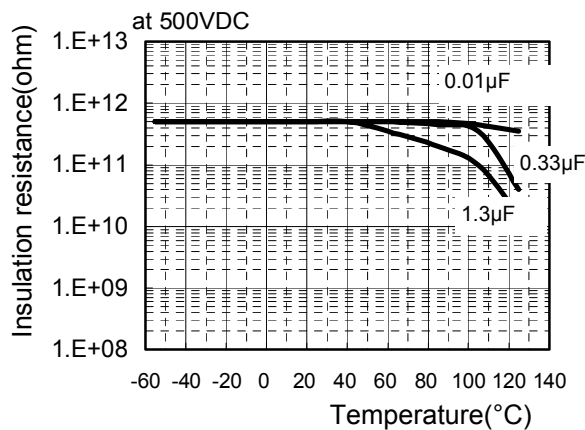
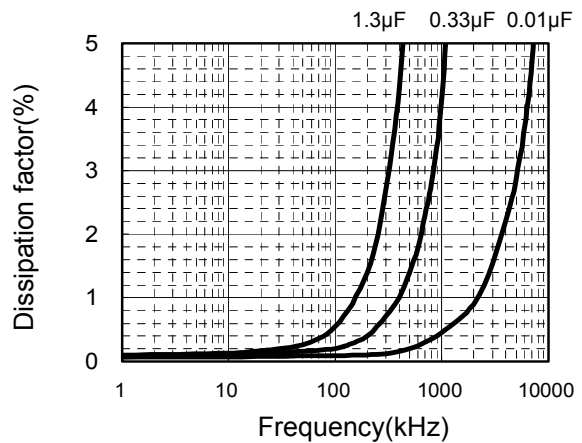
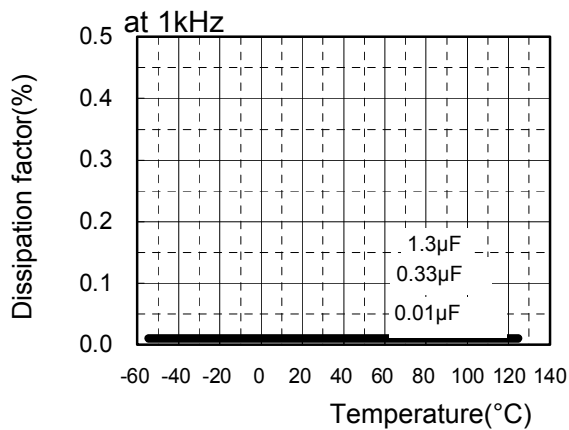
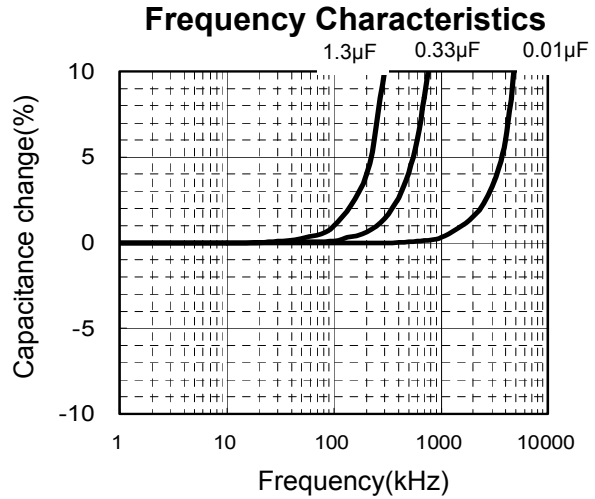
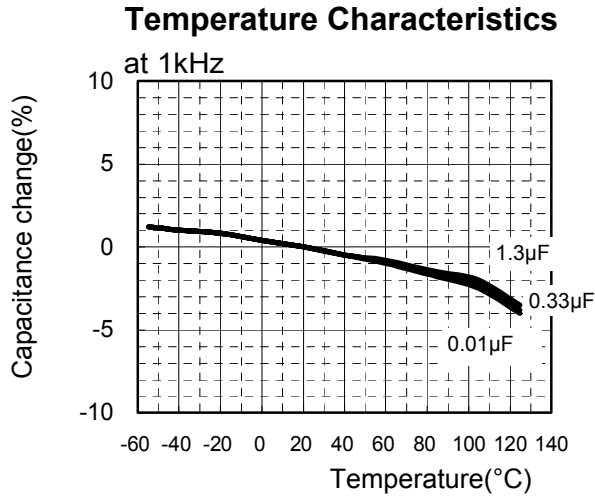
| Capacitance Value(µF) | code | dV/dt (V/us) | Current(0-P) (A) | Capacitance Value(µF) | code | dV/dt (V/us) | Current(0-P) (A) |
|-----------------------|------|--------------|------------------|-----------------------|------|--------------|------------------|
| 0.022 | 223 | 412 | 9.1 | 0.27 | 274 | 154 | 41.6 |
| 0.027 | 273 | 412 | 11.1 | 0.33 | 334 | 154 | 50.8 |
| 0.033 | 333 | 412 | 13.6 | 0.39 | 394 | 154 | 60.1 |
| 0.039 | 393 | 283 | 11.0 | 0.47 | 474 | 154 | 72.4 |
| 0.047 | 473 | 283 | 13.3 | 0.56 | 564 | 136 | 76.2 |
| 0.056 | 563 | 283 | 15.8 | 0.68 | 684 | 136 | 92.5 |
| 0.068 | 683 | 283 | 19.2 | 0.82 | 824 | 113 | 92.7 |
| 0.082 | 823 | 283 | 23.2 | 1.00 | 105 | 113 | 113.0 |
| 0.10 | 104 | 200 | 20.0 | 1.20 | 125 | 85 | 102.0 |
| 0.12 | 124 | 200 | 24.0 | 1.50 | 155 | 85 | 127.5 |
| 0.15 | 154 | 200 | 30.0 | 1.80 | 185 | 85 | 153.0 |
| 0.18 | 184 | 200 | 36.0 | 2.20 | 225 | 85 | 187.0 |
| 0.22 | 224 | 200 | 44.0 | 2.40 | 245 | 85 | 204.0 |

* Please consult Panasonic if your condition exceeds the above
 *When you use this product, peak voltage must not exceed DC rated voltage.
 *The current(0-P) value is calculated using nominal capacitance.



ECWF(L) Type 630VDC series (Metallized Polypropylene Film)

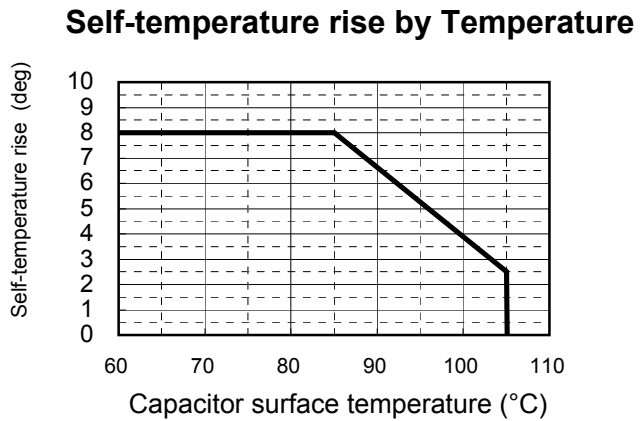
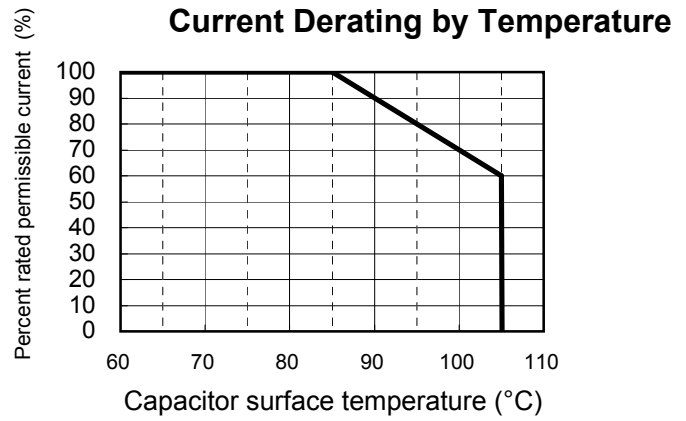
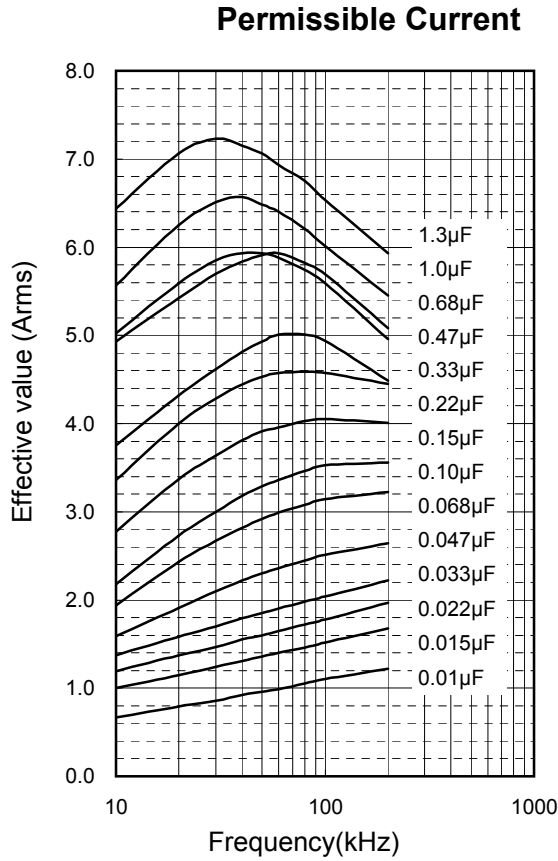
Electrical Characteristics <Typical Data >





ECWF(L) Type 630VDC series (Metallized Polypropylene Film)

Applicable Specifications



Pulse Handling Capability (dv/dt)

(Max 10000cycles)

| Capacitance Value(µF) | code | dV/dt (V/us) | Current(0-P) (A) | Capacitance Value(µF) | code | dV/dt (V/us) | Current(0-P) (A) |
|-----------------------|------|--------------|------------------|-----------------------|------|--------------|------------------|
| 0.01 | 103 | 561 | 5.6 | 0.12 | 124 | 249 | 29.9 |
| 0.012 | 123 | 561 | 6.7 | 0.15 | 154 | 249 | 37.4 |
| 0.015 | 153 | 561 | 8.4 | 0.18 | 184 | 249 | 44.8 |
| 0.018 | 183 | 561 | 10.1 | 0.22 | 224 | 249 | 54.8 |
| 0.022 | 223 | 451 | 9.9 | 0.27 | 274 | 216 | 58.3 |
| 0.027 | 273 | 451 | 12.2 | 0.33 | 334 | 216 | 71.3 |
| 0.033 | 333 | 451 | 14.9 | 0.39 | 394 | 216 | 84.2 |
| 0.039 | 393 | 451 | 17.6 | 0.47 | 474 | 216 | 101.5 |
| 0.047 | 473 | 332 | 15.6 | 0.56 | 564 | 131 | 73.4 |
| 0.056 | 563 | 332 | 18.6 | 0.68 | 684 | 131 | 89.1 |
| 0.068 | 683 | 332 | 22.6 | 0.82 | 824 | 131 | 107.4 |
| 0.082 | 823 | 332 | 27.2 | 1.00 | 105 | 131 | 131.0 |
| 0.10 | 104 | 249 | 24.9 | 1.20 | 125 | 131 | 157.2 |

* Please consult Panasonic if your condition exceeds the above

*When you use this product, peak voltage must not exceed DC rated voltage.

*The current(0-P) value is calculated using nominal capacitance.

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