

Metallized Polypropylene Film Capacitor

Series : **ECWFE**

UP GRADE



Non-inductive construction using metallized Polypropylene film with flame retardant plastic case.

Features

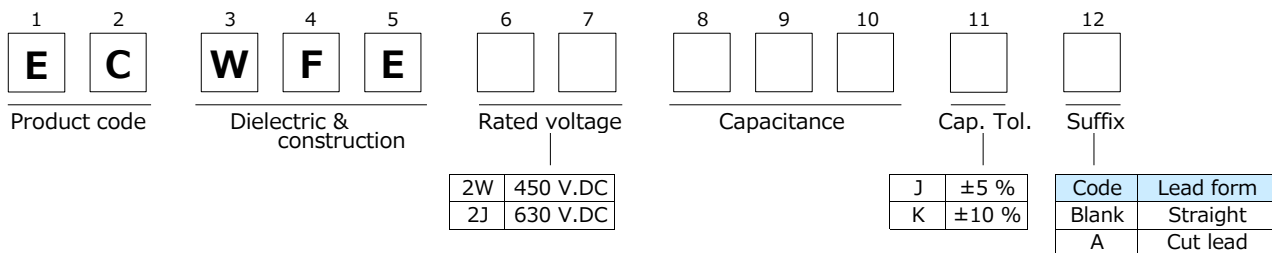
- Small size
- Excellent frequency characteristics
- Low loss
- Flame retardant plastic case and non-combustible resin
- Low hum sound noise
- RoHS compliant

Recommended applications

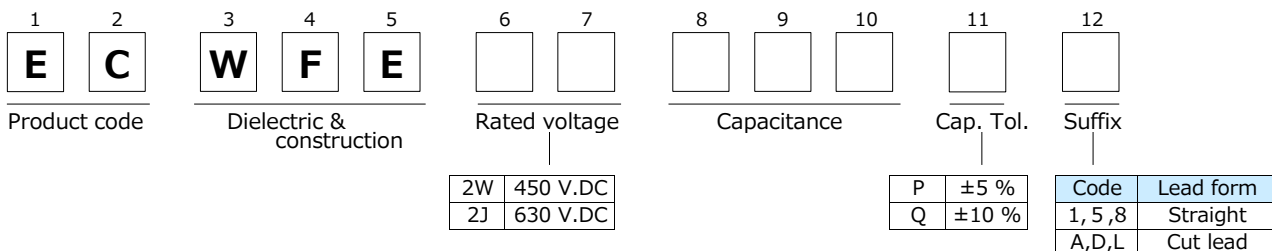
- Active filter circuit
- High frequency circuit

Explanation of part number

- Standard



- Special lead space product

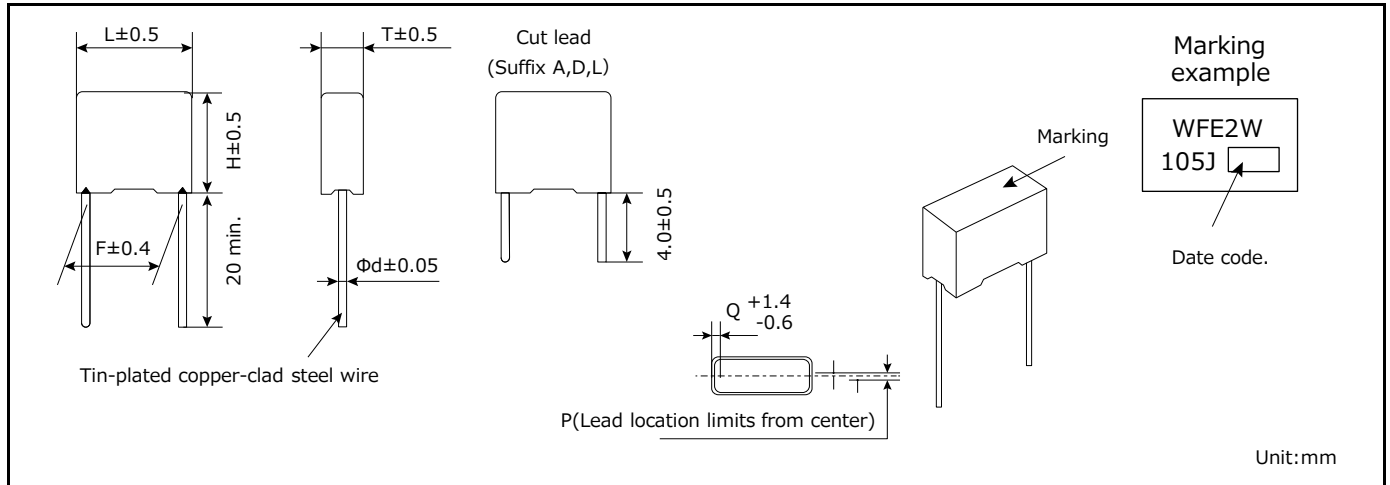


Specifications

Category temp. range (Including temperature-rise on unit surface)	-40 °C to +105 °C	
Rated voltage	450 V.DC	Peak to peak voltage applied on the capacitor should be less than 240 Vp-p, and zero to peak voltage should be less than 450 Vo-p. (Derating of rated voltage by 1.25 %/°C at more than 85 °C)
	630 V.DC	Peak to peak voltage applied on the capacitor should be less than 400 Vp-p, and zero to peak voltage should be less than 630 Vo-p. (Derating of rated voltage by 1.0%/°C at more than 85 °C)
Capacitance range	450 V.DC	0.1 μF to 4.7 μF
	630 V.DC	0.1 μF to 2.2 μF
Capacitance tolerance	±5% (J), ±10 % (K)	
Dissipation factor (tan δ)	tan δ ≤ 0.1 % (20 °C, 1 kHz)	
Withstand voltage	Between terminals : Rated voltage (V.DC)×150 % 60 s	
Insulation resistance (IR)	450 V.DC	C ≤ 0.33 μF : IR ≥ 30,000 MΩ (20 °C, 100 V.DC, 60 s) C > 0.33 μF : IR ≥ 10,000 MΩ·μF
	630 V.DC	C ≤ 0.33 μF : IR ≥ 9,000 MΩ (20 °C, 500 V.DC, 60 s) C > 0.33 μF : IR ≥ 3,000 MΩ·μF

* 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



Rating · Dimensions

- Rated voltage : 450 V.DC, Capacitance tolerance : $\pm 5\%$ (J), $\pm 10\%$ (K)

Part No.	Cap. (μ F)	Dimensions (mm)							Min. order q'ty	
		L	T	H	F	Φd	P	Q	Straight	Cut lead
ECWFE2W104□()	0.10	13.0	5.0	10.5	10.0	0.6	0 \pm 0.8	1.5	1000	1000
NEW ECWFE2W104P()	0.10	17.5	5.0	10.5	15.0	0.6	0 \pm 0.8	1.25		
NEW ECWFE2W104Q()										
ECWFE2W154□()	0.15	13.0	5.0	10.5	10.0	0.6	0 \pm 0.8	1.5		
NEW ECWFE2W154P()	0.15	17.5	5.0	10.5	15.0	0.6	0 \pm 0.8	1.25		
NEW ECWFE2W154Q()										
ECWFE2W224□()	0.22	13.0	6.0	12.0	10.0	0.6	0 \pm 0.8	1.5		
NEW ECWFE2W224P()	0.22	17.5	5.0	10.5	15.0	0.6	0 \pm 0.8	1.25		
NEW ECWFE2W224Q()										
ECWFE2W334□()	0.33	13.0	6.0	12.0	10.0	0.6	0 \pm 0.8	1.5		
NEW ECWFE2W334P()	0.33	17.5	5.0	10.5	15.0	0.6	0 \pm 0.8	1.25		
NEW ECWFE2W334Q()										
ECWFE2W474P()	0.47	13.0	7.0	12.5	10.0	0.6	0 \pm 0.8	1.5		
ECWFE2W474Q()										
ECWFE2W474□()	0.47	17.5	6.0	11.5	15.0	0.8	0 \pm 0.8	1.3		
ECWFE2W684□()	0.68	17.5	7.0	12.5	15.0	0.8	0 \pm 0.8	1.3		
ECWFE2W105□()	1.0	17.5	7.0	12.5	15.0	0.8	0 \pm 0.8	1.3		
ECWFE2W155□()	1.5	17.5	10.0	15.5	15.0	0.8	0 \pm 0.8	1.3	600	
NEW ECWFE2W155P()	1.5	31.0	9.0	19.0	27.5	0.8	0 \pm 0.8	1.75	400	300
NEW ECWFE2W155Q()										
ECWFE2W225□()	2.2	17.5	10.0	15.5	15.0	0.8	0 \pm 0.8	1.3	1000	600
NEW ECWFE2W225P()	2.2	31.0	11.0	21.0	27.5	0.8	0 \pm 0.8	1.75	200	200
NEW ECWFE2W225Q()										
ECWFE2W335□()	3.3	26.0	10.0	17.0	22.5	0.8	0 \pm 0.8	1.8	500	300
NEW ECWFE2W335P()	3.3	31.0	13.0	23.0	27.5	0.8	0 \pm 0.8	1.75	200	200
NEW ECWFE2W335Q()										
ECWFE2W475□()	4.7	26.0	12.0	19.0	22.5	0.8	0 \pm 0.8	1.8	300	200
NEW ECWFE2W475P()	4.7	31.0	15.5	25.5	27.5	0.8	0 \pm 0.8	1.75	150	100
NEW ECWFE2W475Q()										

- * □ : Capacitance tolerance code
- * () : Suffix for lead crimped

Note) Part number marked with bold is special lead space product.

The capacitance of 0.10 μ F, 0.15 μ F, 0.22 μ F, 0.33 μ F, 3.3 μ F, 4.7 μ F are "5" or "D"
 The capacitance of 0.47 μ F is "1" or "A"
 The capacitance of 1.5 μ F, 2.2 μ F are "8" or "L"

Rating · Dimensions

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

Part No.	Cap. (μ F)	Dimensions (mm)							Min. order q'ty	
		L	T	H	F	Φ d	P	Q	Straight	Cut lead
ECWFE2J104□()	0.10	17.5	5.0	10.5	15.0	0.6	0 \pm 0.8	1.3	1000	1000
NEW ECWFE2J104P()	0.10	26.0	6.0	13.0	22.5	0.8	0 \pm 0.8	1.75	900	700
NEW ECWFE2J104Q()										
ECWFE2J154□()	0.15	17.5	6.0	11.5	15.0	0.6	0 \pm 0.8	1.3	1000	1000
NEW ECWFE2J154P()	0.15	26.0	6.0	13.0	22.5	0.8	0 \pm 0.8	1.75	900	700
NEW ECWFE2J154Q()										
ECWFE2J224□()	0.22	17.5	7.0	12.5	15.0	0.6	0 \pm 0.8	1.3	1000	1000
NEW ECWFE2J224P()	0.22	26.0	6.0	13.0	22.5	0.8	0 \pm 0.8	1.75	900	700
NEW ECWFE2J224Q()										
ECWFE2J334□()	0.33	17.5	8.5	14.5	15.0	0.6	0 \pm 0.8	1.3	1000	800
NEW ECWFE2J334P()	0.33	26.0	7.0	14.0	22.5	0.8	0 \pm 0.8	1.75	700	500
NEW ECWFE2J334Q()										
ECWFE2J474□()	0.47	17.5	10.0	15.5	15.0	0.6	0 \pm 0.8	1.3	1000	600
NEW ECWFE2J474P()	0.47	26.0	8.0	15.0	22.5	0.8	0 \pm 0.8	1.75	600	400
NEW ECWFE2J474Q()										
ECWFE2J684□()	0.68	17.5	11.0	17.5	15.0	0.6	0 \pm 0.8	1.3	600	600
ECWFE2J105□()	1.0	26.0	10.0	17.0	22.5	0.8	0 \pm 0.8	1.8	500	300
ECWFE2J155□()	1.5	26.0	12.0	19.0	22.5	0.8	0 \pm 0.8	1.8	300	200
ECWFE2J225□()	2.2	26.0	16.0	23.0	22.5	0.8	0 \pm 0.8	1.8	200	

* □ : Capacitance tolerance code
 * () : Suffix for lead crimped

Note) Part Number marked with bold is Special Lead space product.
 The capacitance of 0.10 μ F, 0.15 μ F, 0.22 μ F, 0.33 μ F, 0.47 μ F are "5" or "D"

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