Panasonic

Plastic Film Capacitors

Metallized Polypropylene Film Capacitor

Series : ECWFE

UPGRADE



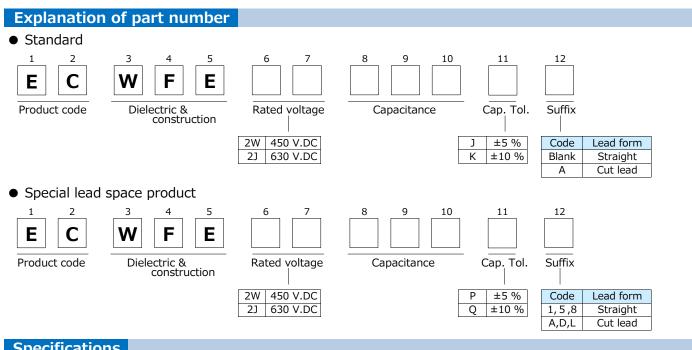
Non-inductive construction using metalized Polypropylene film with flame retardant plastic case.

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



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 240 Vp-p, and zero to peak voltage should be less than 450 (Derating of rated voltage by 1.25 %/°C at more than 85							
	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	Ο.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 C > 0.33 μF : IR ≥ 10,000 MΩ·μF (20 °C, 100 V.DC, 60 s)						
	630 V.DC	C ≤ 0.33 μF : IR ≥ 9,000 MΩ C > 0.33 μF : IR ≥ 3,000 MΩ · μF (20 °C, 500 V.DC, 60 s)						

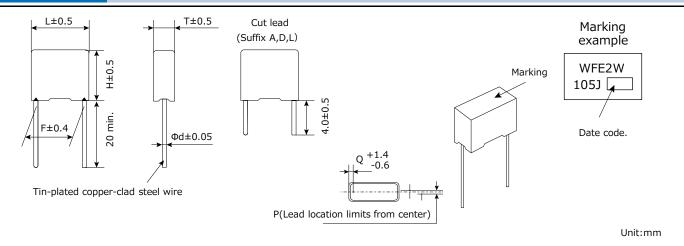
* In case of applying voltage in alternating current (50 Hz or 60 Hz sine wave) to a capacitor with DC rated voltage, please refer to the page of "Permissible voltage (R.M.S) in alternating current corresponding to DC rated voltage".

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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Dimensions



Rating · Dimensions

• Rated voltage : 450 V.DC, Capacitance tolerance : $\pm 5 \%$ (J), $\pm 10 \%$ (K)										
	Cap.	Dimensions (mm)						Min. order q'ty		
Part No.	(µF)	L	Т	Н	F	Φd	Р	Q	Straight	Cut lead
ECWFE2W104 \Box ()	0.10	13.0	5.0	10.5	10.0	0.6	0±0.8	1.5	1000	1000
NEW ECWFE2W104P()	0.10	17.5	5.0	10.5	15.0	0.6	0±0.8	1.25		
NEW ECWFE2W104Q() ECWFE2W154□()	0.15	13.0	5.0	10.5	10.0	0.6	0±0.8	1.5		
NEW ECWFE2W154P()	0.15	15.0	5.0	10.5	10.0	0.0	0=0.0	1.5		
NEW ECWFE2W154Q()	0.15	17.5	5.0	10.5	15.0	0.6	0±0.8	1.25		
ECWFE2W224 ()	0.22	13.0	6.0	12.0	10.0	0.6	0±0.8	1.5		
NEW ECWFE2W224P()	0.22	17.5	5.0	10.5	15.0	0.6	0±0.8	1.25		
ECWFE2W334 ()	0.33	13.0	6.0	12.0	10.0	0.6	0±0.8	1.5	=	
NEW ECWFE2W334P() NEW ECWFE2W334Q()	0.33	17.5	5.0	10.5	15.0	0.6	0±0.8	1.25	-	
ECWFE2W474P()	0.47	13.0	7.0	12.5	10.0	0.6	0±0.8	1.5		
ECWFE2W474Q()										
ECWFE2W474 ()	0.47	17.5	6.0	11.5	15.0	0.8	0±0.8	1.3		
ECWFE2W684 ()	0.68	17.5	7.0	12.5	15.0	0.8	0±0.8	1.3		
ECWFE2W105 \Box ()	1.0	17.5	7.0	12.5	15.0	0.8	0±0.8	1.3		
ECWFE2W155 \Box ()	1.5	17.5	10.0	15.5	15.0	0.8	0±0.8	1.3		600
NEW ECWFE2W155P() NEW ECWFE2W155Q()	1.5	31.0	9.0	19.0	27.5	0.8	0±0.8	1.75	400	300
ECWFE2W225 ()	2.2	17.5	10.0	15.5	15.0	0.8	0±0.8	1.3	1000	600
NEW ECWFE2W225P()	2.2	21.0	11.0	21.0		0.0	0100	1 75	200	200
NEW ECWFE2W225Q()	2.2	31.0	11.0	21.0	27.5	0.8	0±0.8	1.75	200	200
ECWFE2W335□()	3.3	26.0	10.0	17.0	22.5	0.8	0±0.8	1.8	500	300
NEW ECWFE2W335P()	3.3	31.0	13.0	23.0	27.5	0.8	0±0.8	1.75	200	200
NEW ECWFE2W335Q()										
ECWFE2W475□()	4.7	26.0	12.0	19.0	22.5	0.8	0±0.8	1.8	300	200
NEW ECWFE2W475P() NEW ECWFE2W475Q()	4.7	31.0	15.5	25.5	27.5	0.8	0±0.8	1.75	150	100

 $* \square$: Capacitance tolerance code

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

*(): Suffix for lead crimped

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"

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Rating · Dimensions

	● Rated voltage : 630 V.DC, Capacitance tolerance : ±5 %(J), ± 10 %(K)										
	Part No.	Cap.			1	nsions (r				Min. order q'ty	
_		(µF)	L	Т	H	F	Φd	Р	Q	Straight	Cut lead
-	ECWFE2J104 \Box ()	0.10	17.5	5.0	10.5	15.0	0.6	0±0.8	1.3	1000	1000
-	<pre>W ECWFE2J104P() W ECWFE2J104Q()</pre>	0.10	26.0	6.0	13.0	22.5	0.8	0±0.8	1.75	900	700
	ECWFE2J154 ()	0.15	17.5	6.0	11.5	15.0	0.6	0±0.8	1.3	1000	1000
-	W ECWFE2J154P() ECWFE2J154Q()	0.15	26.0	6.0	13.0	22.5	0.8	0±0.8	1.75	900	700
-	ECWFE2J224 ()	0.22	17.5	7.0	12.5	15.0	0.6	0±0.8	1.3	1000	1000
-	<pre>W ECWFE2J224P() W ECWFE2J224Q()</pre>	0.22	26.0	6.0	13.0	22.5	0.8	0±0.8	1.75	900	700
-	ECWFE2J334 ()	0.33	17.5	8.5	14.5	15.0	0.6	0±0.8	1.3	1000	800
-	<pre>W ECWFE2J334P() W ECWFE2J334Q()</pre>	0.33	26.0	7.0	14.0	22.5	0.8	0±0.8	1.75	700	500
-	ECWFE2J474 ()	0.47	17.5	10.0	15.5	15.0	0.6	0±0.8	1.3	1000	600
-	<pre>W ECWFE2J474P() W ECWFE2J474Q()</pre>	0.47	26.0	8.0	15.0	22.5	0.8	0±0.8	1.75	600	400
-	ECWFE2J684 ()	0.68	17.5	11.0	17.5	15.0	0.6	0±0.8	1.3	600	600
-	ECWFE2J105 ()	1.0	26.0	10.0	17.0	22.5	0.8	0±0.8	1.8	500	
-	<pre>W ECWFE2J105P() W ECWFE2J105Q()</pre>	1.0	31.0	9.0	19.0	27.5	0.8	0±0.8	1.75	400	300
-	ECWFE2J155 ()	1.5	26.0	12.0	19.0	22.5	0.8	0±0.8	1.8	300	
-	W ECWFE2J155P() ECWFE2J155Q()	1.5	31.0	11.0	21.0	27.5	0.8	0±0.8	1.75		200
-	ECWFE2J225 ()	2.2	26.0	16.0	23.0	22.5	0.8	0±0.8	1.8	200	200
-	W ECWFE2J225P() W ECWFE2J225Q()	2.2	31.0	13.0	23.0	27.5	0.8	0±0.8	1.75		

* \square : Capacitance tolerance code

*(): Suffix for lead crimped

Note) Part Number marked with bold is Special Lead space product.

The capacitance of 0.10 $\mu F,$ 0.15 $\mu F,$ 0.22 $\mu F,$ 0.33 $\mu F,$ 0.47 $\mu F,$ 1.0 $\mu F,$ 1.5 $\mu F,$ 2.2 μF are "5" or "D"

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