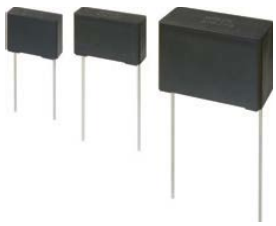
Metallized Polypropylene Film Capacitor

Series : **ECWFE** **UP GRADE**



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

Explanation of part number

- Standard

1	2	3	4	5	6	7	8	9	10	11	12
E	C	W	F	E							
Product code		Dielectric & construction			Rated voltage		Capacitance			Cap. Tol.	Suffix

2W	450 V.DC
2J	630 V.DC

J	±5 %
K	±10 %

Code	Lead form
Blank	Straight
A	Cut lead

- Special lead space product

1	2	3	4	5	6	7	8	9	10	11	12
E	C	W	F	E							
Product code		Dielectric & construction			Rated voltage		Capacitance			Cap. Tol.	Suffix

2W	450 V.DC
2J	630 V.DC

P	±5 %
Q	±10 %

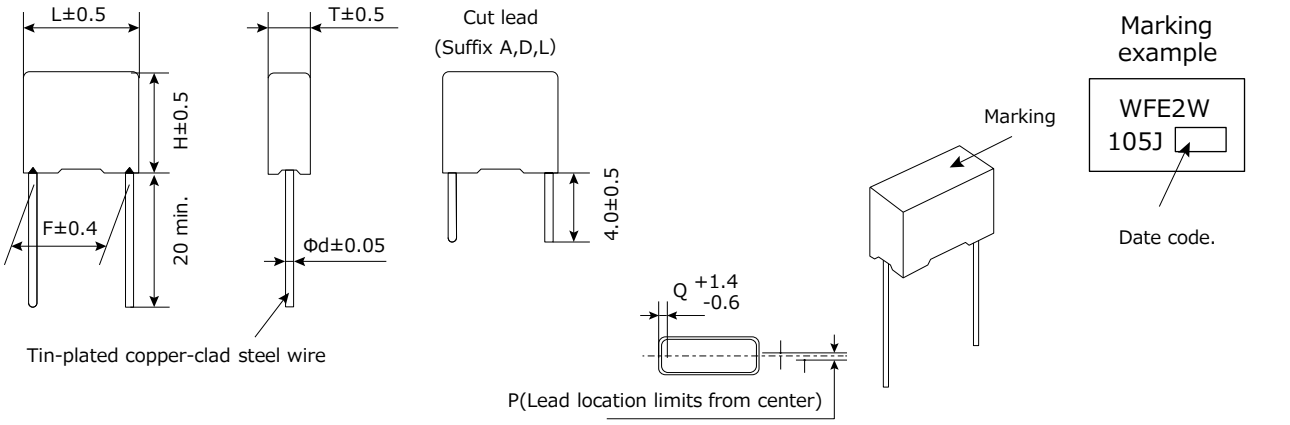
Code	Lead form
1, 5 ,8	Straight
A,D,L	Cut lead

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 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”.

Dimensions



Rating · Dimensions

● Rated voltage : 450 V.DC, Capacitance tolerance : ±5 %(J), ± 10 %(K)

Part No.	Cap. (μF)	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±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	17.5	5.0	10.5	15.0	0.6	0±0.8	1.25		
NEW **ECWFE2W154Q( )**										
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		
NEW **ECWFE2W224Q( )**										
ECWFE2W334□( )	0.33	13.0	6.0	12.0	10.0	0.6	0±0.8	1.5		
NEW **ECWFE2W334P( )**	0.33	17.5	5.0	10.5	15.0	0.6	0±0.8	1.25		
NEW **ECWFE2W334Q( )**										
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□( )	1.0	17.5	7.0	12.5	15.0	0.8	0±0.8	1.3		
ECWFE2W155□( )	1.5	17.5	10.0	15.5	15.0	0.8	0±0.8	1.3		600
NEW **ECWFE2W155P( )**	1.5	31.0	9.0	19.0	27.5	0.8	0±0.8	1.75	400	300
NEW **ECWFE2W155Q( )**										
ECWFE2W225□( )	2.2	17.5	10.0	15.5	15.0	0.8	0±0.8	1.3	1000	600
NEW **ECWFE2W225P( )**	2.2	31.0	11.0	21.0	27.5	0.8	0±0.8	1.75	200	200
NEW **ECWFE2W225Q( )**										
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( )**	4.7	31.0	15.5	25.5	27.5	0.8	0±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 μF, 0.15 μF, 0.22 μF, 0.33 μF, 3.3 μF, 4.7 μF are "5" or "D"
The capacitance of 0.47 μF is "1" or "A"
The capacitance of 1.5 μF, 2.2 μF are "8" or "L"

Rating · Dimensions

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

Part No.	Cap. (μF)	Dimensions (mm)							Min. order q'ty	
		L	T	H	F	Φd	P	Q	Straight	Cut lead
ECWFE2J104□( )	0.10	17.5	5.0	10.5	15.0	0.6	0±0.8	1.3	1000	1000
NEW **ECWFE2J104P( )**	0.10	26.0	6.0	13.0	22.5	0.8	0±0.8	1.75	900	700
NEW **ECWFE2J104Q( )**										
ECWFE2J154□( )	0.15	17.5	6.0	11.5	15.0	0.6	0±0.8	1.3	1000	1000
NEW **ECWFE2J154P( )**	0.15	26.0	6.0	13.0	22.5	0.8	0±0.8	1.75	900	700
NEW **ECWFE2J154Q( )**										
ECWFE2J224□( )	0.22	17.5	7.0	12.5	15.0	0.6	0±0.8	1.3	1000	1000
NEW **ECWFE2J224P( )**	0.22	26.0	6.0	13.0	22.5	0.8	0±0.8	1.75	900	700
NEW **ECWFE2J224Q( )**										
ECWFE2J334□( )	0.33	17.5	8.5	14.5	15.0	0.6	0±0.8	1.3	1000	800
NEW **ECWFE2J334P( )**	0.33	26.0	7.0	14.0	22.5	0.8	0±0.8	1.75	700	500
NEW **ECWFE2J334Q( )**										
ECWFE2J474□( )	0.47	17.5	10.0	15.5	15.0	0.6	0±0.8	1.3	1000	600
NEW **ECWFE2J474P( )**	0.47	26.0	8.0	15.0	22.5	0.8	0±0.8	1.75	600	400
NEW **ECWFE2J474Q( )**										
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	300
ECWFE2J155□( )	1.5	26.0	12.0	19.0	22.5	0.8	0±0.8	1.8	300	200
ECWFE2J225□( )	2.2	26.0	16.0	23.0	22.5	0.8	0±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 μF, 0.15 μF, 0.22 μF, 0.33 μF, 0.47 μF are "5" or "D"