

Metallized Polypropylene Film Capacitors

Type: **ECWF(A)**

Designed for high frequency and current applications.

■Features

- Small size
- Excellent frequency characteristics
- Low loss
- Low Hum Sound Noise
- RoHS directive compliant

■Recommended Applications

- 250VDC:High frequency and high current circuits
- 450VDC:Active filter circuits

■Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11																				
E	C	W	F						A																					
Products code		Dielectric & construction		Rated voltage		Capacitance		Cap. Tol.	Suffix	Suffix																				
				<table><tr><td>2</td><td>250 VDC</td></tr><tr><td>2W</td><td>450 VDC</td></tr></table>		2	250 VDC	2W	450 VDC	<table><tr><td>H</td><td>±3 %</td></tr><tr><td>J</td><td>±5 %</td></tr><tr><td>K</td><td>±10 %</td></tr></table>		H	±3 %	J	±5 %	K	±10 %		<table><tr><td>Suffix</td><td>Lead form</td></tr><tr><td>Blank</td><td>Straight</td></tr><tr><td>B</td><td>Crimped Lead</td></tr><tr><td>Q</td><td>Crimped Lead</td></tr><tr><td>C</td><td>Cut lead</td></tr></table>		Suffix	Lead form	Blank	Straight	B	Crimped Lead	Q	Crimped Lead	C	Cut lead
2	250 VDC																													
2W	450 VDC																													
H	±3 %																													
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Suffix	Lead form																													
Blank	Straight																													
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●Explanation of Part Numbers for Odd Size Taping

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

■Specifications

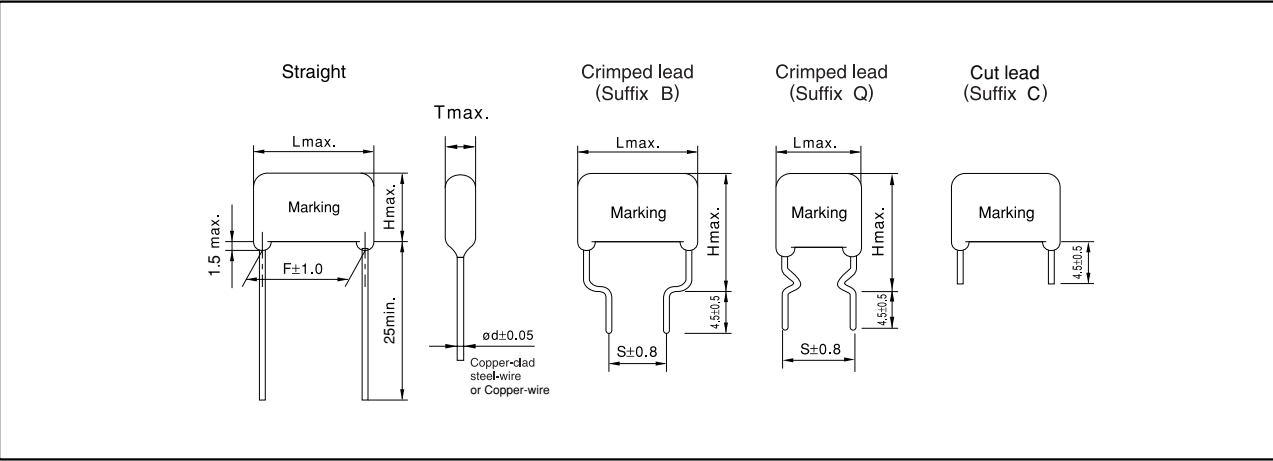
Category temp. range (Including temperature-rise on unit surface)	-40 °C to +105 °C	
Rated voltage	250 VDC	
	450 VDC	Peak to peak voltage applied on the capacitor should be less than 240Vp-p, and zero to peak voltage should be less than 450V.
Capacitance range	250 VDC	0.1 μF to 6.8 μF
	450 VDC	0.1 μF to 4.7 μF
Capacitance tolerance	250 VDC	±3 % (H), ±5 % (J)
	450 VDC	±5 % (J), ±10 % (K)
Withstand voltage	Between terminals: Rated voltage (VDC) × 150 % 60 s	
Dissipation factor (tan δ)	tan δ ≤ 0.1 % (20 °C, 1 kHz)	
Insulation resistance (IR)	250 VDC	C ≤ 0.33 μF : IR ≥ 9,000 MΩ C > 0.33 μF : IR ≥ 3,000 MΩ · μF (20 °C, 100 VDC, 60 s)
	450 VDC	C ≤ 0.33 μF : IR ≥ 30,000 MΩ C > 0.33 μF : IR ≥ 10,000 MΩ · μF (20 °C, 100 VDC, 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, 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)

(Dimensions : mm)

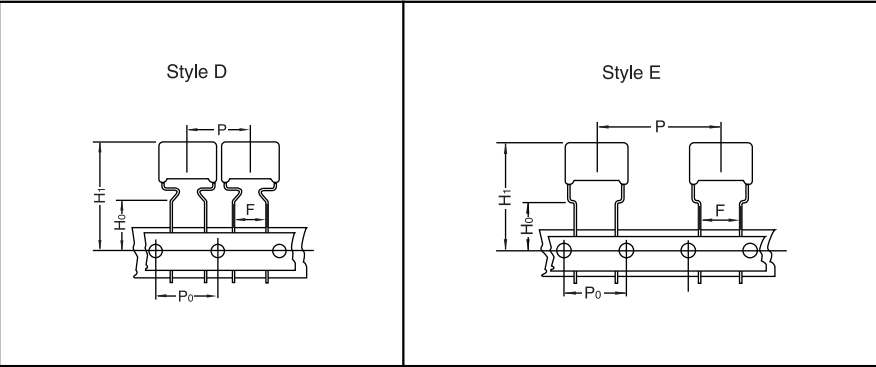


■Packaging Specification for Bulk Package

Packing quantity: 100 pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



✱Refer to the page of taping specifications.

●Packaging Specifications

Type	Rated voltage.	Cap. range (μF)	Taping style						Packing	suffix
			AD	AS	B	C	D	E		
ECWF(A)	250 VDC	0.10 to 0.47					○		Ammo	R() A
		0.56 to 2.2						○		
	450 VDC	0.10 to 0.47					○			
		0.56 to 2.2						○		

●Lead Spacing

Style	Lead Spacing
D	7.5 mm
E	7.5 mm

■Rating, Dimensions & Quantity/Ammo Box

●Type ECWF(A) Rated voltage : 250 VDC

Part No.	Cap. (μF)	Dimensions (mm)										Min. order Q'ty	
		L _{max}	T _{max}	H _{max}			F	S		G _{max}	ød	Taping 7.5mm	
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)				
ECWF2104□A()	0.10	13.0	5.0	—	14.1	14.1	—	7.5	10.0	—	0.6	1300	
ECWF2124□A()	0.12	13.0	5.3		14.4	14.4		7.5	10.0		0.6	1200	
ECWF2154□A()	0.15	13.0	5.6		14.7	14.7		7.5	10.0		0.6	1100	
ECWF2184□A()	0.18	13.0	5.9		15.1	15.1		7.5	10.0		0.6		
ECWF2224□A()	0.22	13.0	6.3		15.4	15.4		7.5	10.0		0.6	1000	
ECWF2274□A()	0.27	13.0	6.8		15.9	15.9		7.5	10.0		0.6	900	
ECWF2334□A()	0.33	13.0	7.3		16.4	16.4		7.5	10.0		0.6		
ECWF2394□A()	0.39	13.0	7.8		16.9	16.9		7.5	10.0		0.6	800	
ECWF2474□A()	0.47	13.0	8.4		17.6	17.6		7.5	10.0		0.6	700	
ECWF2564□A()	0.56	18.1	6.9		16.4	18.4		7.5	15.0		0.8	400	
ECWF2684□A()	0.68	18.1	7.4		17.0	19.0		7.5	15.0		0.8		
ECWF2824□A()	0.82	18.1	8.0		17.6	19.6		7.5	15.0		0.8		
ECWF2105□A()	1.0	18.1	8.5	13.3	18.3	20.3	15.0	7.5	15.0	1.5	0.8	300	
ECWF2125□A()	1.2	18.8	9.5	14.6	19.6	21.6	15.0	7.5	15.0	1.5	0.8		
ECWF2155□A()	1.5	18.8	10.5	15.6	20.6	22.6	15.0	7.5	15.0	1.5	0.8		
ECWF2185□A()	1.8	18.8	11.4	16.5	21.5	23.5	15.0	7.5	15.0	1.5	0.8	200	
ECWF2225□A()	2.2	18.8	12.6	17.6	22.6	24.6	15.0	7.5	15.0	1.5	0.8		
ECWF2275□A()	2.7	23.8	11.4	17.2	22.2	24.2	20.0	12.5	20.0	1.5	0.8	300	
ECWF2335□A()	3.3	23.8	12.5	18.3	23.3	25.3	20.0	12.5	20.0	1.5	0.8	200	
ECWF2395□A()	3.9	23.8	13.5	19.3	24.3	26.3	20.0	12.5	20.0	1.5	0.8		
ECWF2475□A()	4.7	23.8	14.8	20.6	25.6	27.6	20.0	12.5	20.0	1.5	0.8	—	
ECWF2565□A()	5.6	23.8	16.2	21.9	26.9	28.9	20.0	12.5	20.0	1.5	0.8		
ECWF2685□A()	6.8	23.8	17.8	23.5	28.5	30.5	20.0	12.5	20.0	1.5	0.8		

Suffix for lead crimped
 Capacitance tolerance code

●Type ECWF(A) Rated voltage : 450 VDC

Part No.	Cap. (μF)	Dimensions (mm)										Min. order Q'ty	
		L _{max}	T _{max}	H _{max}			F	S		G _{max}	ød	Taping 7.5mm	
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)				
ECWF2W104□A()	0.10	13.0	5.1	—	14.3	14.3	—	7.5	10.0	1.5	0.6	1200	
ECWF2W124□A()	0.12	13.0	5.4		14.5	14.5		7.5	10.0	1.5	0.6		
ECWF2W154□A()	0.15	13.0	5.7		14.9	14.9		7.5	10.0	1.5	0.6	1000	
ECWF2W184□A()	0.18	13.0	6.1		15.2	15.2		7.5	10.0	1.5	0.6		
ECWF2W224□A()	0.22	13.0	6.5		15.6	15.6		7.5	10.0	1.5	0.6	800	
ECWF2W274□A()	0.27	13.0	7.0		16.1	16.1		7.5	10.0	1.5	0.6		
ECWF2W334□A()	0.33	13.0	7.6		16.7	16.7		7.5	10.0	1.5	0.6	600	
ECWF2W394□A()	0.39	13.0	8.1		17.2	17.2		7.5	10.0	1.5	0.6		
ECWF2W474□A()	0.47	13.0	8.7		17.9	17.9		7.5	10.0	1.5	0.6		
ECWF2W564□A()	0.56	18.1	7.0	11.5	16.5	18.5	15.0	7.5	15.0	1.5	0.8	400	
ECWF2W684□A()	0.68	18.1	7.5	12.1	17.1	19.1	15.0	7.5	15.0	1.5	0.8		
ECWF2W824□A()	0.82	18.1	8.2	12.7	17.7	19.7	15.0	7.5	15.0	1.5	0.8	300	
ECWF2W105□A()	1.0	18.1	9.3	12.6	17.6	19.6	15.0	7.5	15.0	1.5	0.8		
ECWF2W125□A()	1.2	18.8	9.7	14.7	19.7	21.7	15.0	7.5	15.0	1.5	0.8		
ECWF2W155□A()	1.5	18.8	10.7	15.8	20.8	22.8	15.0	7.5	15.0	1.5	0.8	200	
ECWF2W185□A()	1.8	18.8	11.6	16.7	21.7	23.7	15.0	7.5	15.0	1.5	0.8		
ECWF2W225□A()	2.2	18.8	12.8	17.9	22.9	24.9	15.0	7.5	15.0	1.5	0.8	—	
ECWF2W275□A()	2.7	26.3	10.6	16.5	21.5	23.5	22.5	15.0	22.5	1.5	0.8		
ECWF2W335□A()	3.3	26.3	11.7	17.5	22.5	24.5	22.5	15.0	22.5	1.5	0.8		
ECWF2W395□A()	3.9	26.3	12.6	18.4	23.4	25.4	22.5	15.0	22.5	1.5	0.8		
ECWF2W475□A()	4.7	26.3	13.8	19.6	24.6	26.6	22.5	15.0	22.5	1.5	0.8		

Suffix for lead crimped
 Capacitance tolerance code