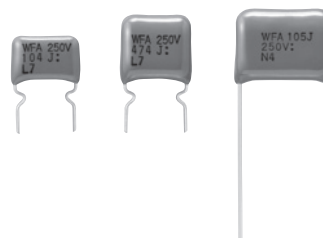


Metallized Polypropylene Film Capacitor

Type : **ECWF(A)**

Non-inductive construction using metallized polypropylene film with flame retardant epoxy resin coating.



Features

- Small size
- Excellent frequency characteristics
- Low loss
- Low Hum Sound Noise
- Flame retardant epoxy resin coating
- 85 degree C , 85 %RH , 500 V.DC , 500 hours (630 V.DC)
- RoHS directive compliant

Recommended applications

- 250 V.DC, 630 V.DC : High frequency and high current circuit
- 450 V.DC : Active filter circuit

Explanation of part number

- 250 V.DC, 450 V.DC (Bulk)

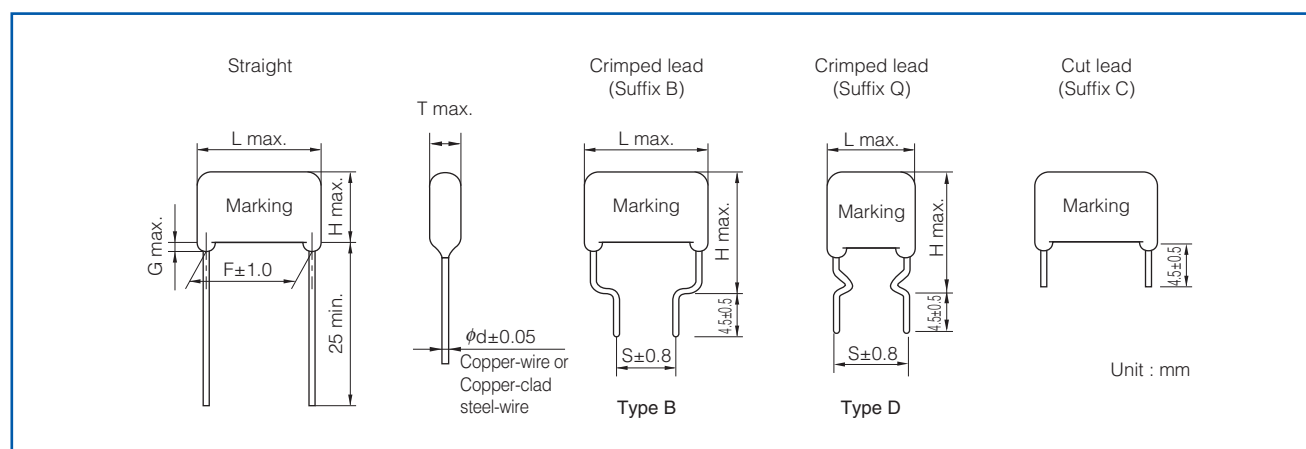
1	2	3	4	5	6	7	8	9	10	11	12										
E	C	W	F							A											
Product code		Dielectric & construction		Rated voltage		Capacitance			Cap. Tol.	Suffix	Suffix										
										<table><tr><th>Code</th><th>Lead Form</th></tr><tr><td>Blank</td><td>Straight</td></tr><tr><td>B</td><td>Crimped lead</td></tr><tr><td>Q</td><td>Crimped lead</td></tr><tr><td>C</td><td>Cut lead</td></tr></table>		Code	Lead Form	Blank	Straight	B	Crimped lead	Q	Crimped lead	C	Cut lead
Code	Lead Form																				
Blank	Straight																				
B	Crimped lead																				
Q	Crimped lead																				
C	Cut lead																				

Specifications

Category temp. range (Including temperature-rise on unit surface)	- 40 °C to +105 °C	
Rated voltage	250 V.DC	
	450 V.DC (Derating of rated voltage by 1.25%/°C at more than 85 °C) 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.	
	630 V.DC (Derating of rated voltage by 1.0%/°C at more than 85 °C)	
Capacitance range	250 V.DC	0.1 µF to 6.8 µF
	450 V.DC	0.1 µF to 4.7 µF
	630 V.DC	0.1 µF to 2.2 µF
Capacitance tolerance	250 V.DC	±3 % (H), ±5 % (J)
	450 V.DC	±5 % (J), ±10 % (K)
	630 V.DC	±5 % (J)
Dissipation factor (tan δ)	tan δ ≤ 0.1 % (20 °C, 1 kHz)	
Withstand voltage	Between terminals : Rated volt. (V.DC) × 150 %, 60 s	
Insulation resistance (IR)	250 V.DC	$C \leq 0.33 \mu\text{F}$: IR ≥ 9000 MΩ $C > 0.33 \mu\text{F}$: IR ≥ 3000 MΩ · µF (20 °C, 100 V.DC, 60 s)
	450 V.DC	$C \leq 0.33 \mu\text{F}$: IR ≥ 30000 MΩ $C > 0.33 \mu\text{F}$: IR ≥ 10000 MΩ · µF (20 °C, 100 V.DC, 60 s)
	630 V.DC	$C \leq 0.33 \mu\text{F}$: IR ≥ 9000 MΩ $C > 0.33 \mu\text{F}$: IR ≥ 3000 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

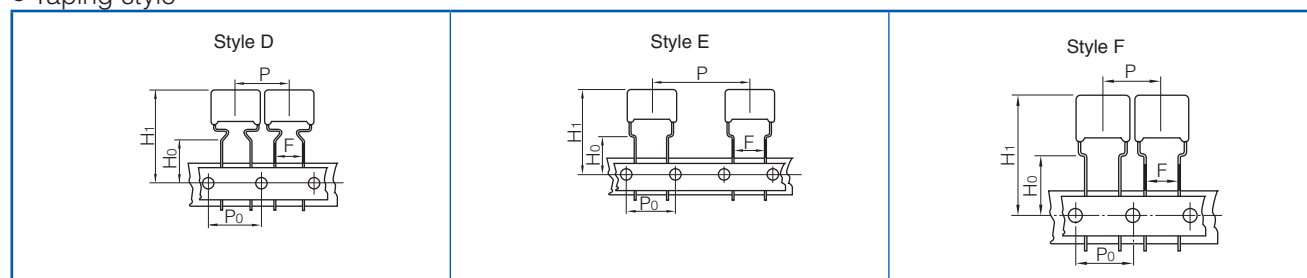


Packaging specifications for bulk package

- Packing quantity : 100 pcs./bag

Taping specifications for automatic insertion

● Taping style



* Refer to the page of taping specifications.

● Packaging specifications

Type	Rated voltage (V.DC)	Capacitance range (μF)	Taping style							Packing	suffix
			AD	AS	B	C	D	E	F		
ECWF(A)	250	0.10 to 0.47					○			Ammo	R() A
		0.56 to 3.9						○			
	450	0.10 to 0.47							○		
		0.56 to 2.2						○			
	630	0.10 to 0.68						○			
											J4

● Lead spacing

Style	Lead spacing
D	7.5 mm
E	7.5 mm
F	7.5 mm

Rating · Dimensions · Quantity

● Rated voltage : 250 V.DC, Capacitance tolerance : ± 3 % (H), ± 5 % (J)

Part No.	Cap. (μF)	Dimensions (mm)										Min. order Q'ty	
		L max.	T max.	H max.			F	S		G max.	φd	Taping	Bulk
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)			7.5 mm	Straight · Crimped lead
ECWF2104□A()	0.10	13.0	5.0		14.1	14.1		7.5	10.0		0.6	1300	500
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	1000	
ECWF2224□A()	0.22	13.0	6.3		15.4	15.4		7.5	10.0		0.6	900	
ECWF2274□A()	0.27	13.0	6.8		15.9	15.9		7.5	10.0		0.6	800	
ECWF2334□A()	0.33	13.0	7.3		16.4	16.4		7.5	10.0		0.6	700	
ECWF2394□A()	0.39	13.0	7.8		16.9	16.9		7.5	10.0		0.6		
ECWF2474□A()	0.47	13.0	8.4		17.6	17.6		7.5	10.0		0.6		
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	200	
ECWF2155□A()	1.5	18.8	10.5	15.6	20.6	22.6	15.0	7.5	15.0	1.5	0.8	300	
ECWF2185□A()	1.8	18.8	11.4	16.5	21.5	23.5	15.0	7.5	15.0	1.5	0.8		
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	200	
ECWF2335□A()	3.3	23.8	12.5	18.3	23.3	25.3	20.0	12.5	20.0	1.5	0.8		
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		

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

Rating · Dimensions · Quantity

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

Part No.	Cap. (μF)	Dimensions (mm)										Min. order Q'ty		
		L max.	T max.	H max.			F	S		G max.	φd	Taping	Bulk	
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)			7.5 mm	Straight - Crimped lead	
ECWF2W104□A()	0.10	13.0	5.1	—	14.3	14.3	—	7.5	10.0	1.5	0.6	1200	500	
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			
ECWF2W184□A()	0.18	13.0	6.1		15.2	15.2		7.5	10.0	1.5	0.6	1000		
ECWF2W224□A()	0.22	13.0	6.5		15.6	15.6		7.5	10.0	1.5	0.6			
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	800		
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	600		
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			
ECWF2W105□A()	1.0	18.1	9.3	12.6	17.6	19.6	15.0	7.5	15.0	1.5	0.8	300		
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			
ECWF2W185□A()	1.8	18.8	11.6	16.7	21.7	23.7	15.0	7.5	15.0	1.5	0.8	200		
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			

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

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

Part No.	Cap. (μ F)	Dimensions (mm)										Min. order Q'ty				
		L max.	T max.	H max.			F	S		G max.	ϕ d	Taping	Bulk			
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)			7.5 mm	Straight	Crimped lead		
ECWFA2J104J()	0.10	18.2	5.2	10.4	15.4	15.4	15.0	7.5	15.0	1.5	0.6	600	1000	1000		
ECWFA2J124J()	0.12	18.2	5.5	10.8	15.8	15.8	15.0	7.5	15.0	1.5	0.6					
ECWFA2J154J()	0.15	18.2	6.0	11.2	16.2	16.2	15.0	7.5	15.0	1.5	0.6	500				
ECWFA2J184J()	0.18	18.2	6.5	11.7	16.7	16.7	15.0	7.5	15.0	1.5	0.6					
ECWFA2J224J()	0.22	18.2	7.1	12.3	17.3	17.3	15.0	7.5	15.0	1.5	0.6	400				
ECWFA2J274J()	0.27	18.2	7.8	12.9	17.9	17.9	15.0	7.5	15.0	1.5	0.6					
ECWFA2J334J()	0.33	18.2	8.5	13.6	18.6	18.6	15.0	7.5	15.0	1.5	0.6	300				
ECWFA2J394J()	0.39	18.2	9.2	14.3	19.3	19.3	15.0	7.5	15.0	1.5	0.6					
ECWFA2J474J()	0.47	18.2	10.0	15.1	20.1	20.1	15.0	7.5	15.0	1.5	0.6					
ECWFA2J564J()	0.56	18.2	10.9	16.0	21.0	21.0	15.0	7.5	15.0	1.5	0.6					
ECWFA2J684J()	0.68	18.2	12.0	17.1	22.1	22.1	15.0	7.5	15.0	1.5	0.6	200	800	600		
ECWFA2J824J()	0.82	26.0	10.1	15.3	20.3	22.3	22.5	15.0	22.5	1.5	0.8	-				
ECWFA2J105J()	1.0	26.0	11.1	16.2	21.2	23.2	22.5	15.0	22.5	1.5	0.8		600			
ECWFA2J125J()	1.2	26.0	12.1	17.2	22.2	24.2	22.5	15.0	22.5	1.5	0.8				500	
ECWFA2J155J()	1.5	26.0	13.5	18.6	23.6	25.6	22.5	15.0	22.5	1.5	0.8		400			
ECWFA2J185J()	1.8	26.0	14.8	19.8	24.8	26.8	22.5	15.0	22.5	1.5	0.8				500	
ECWFA2J225J()	2.2	26.0	16.3	21.4	26.4	28.4	22.5	15.0	22.5	1.5	0.8		500			

* () : Suffix for lead crimped

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic:

[ECW-F2124HA](#) [ECW-F2184HA](#) [ECW-F2184JA](#) [ECW-F2W105KAC](#)