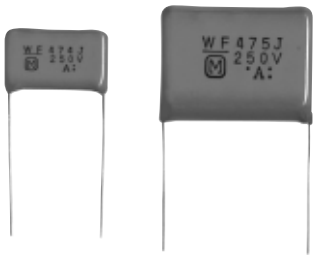
Metallized Polypropylene Film Capacitor

Type: ECWF(B)

Designed for high current and frequency applications.



■Features

- Low-loss
- Excellent frequency characteristics
- Flame reterdant epoxy resin coating
- RoHS directive compliant

■Recommended Applications

- High frequency and high current circuits (TVs, Monitors, Power Supplies, etc.)

■Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11
E	C	W	F						B	

Products code: ECWF
Dielectric & construction: W
Rated voltage: 5
Capacitance: 6 7 8
Cap. Tol.: 9
Suffix: 10 B
Suffix: 11

Rated voltage	
2	250 VDC (150 Vrms, 250 Vo-p)
4	400 VDC (200 Vrms, 400 Vo-p)

Cap. Tol.	
H	±3 %
J	±5 %

Suffix		
Blank	Type 1	Straight
B	Type 2	Crimped lead

●Explanation of Part Numbers for Odd Size Taping

E	C	W	F					R		B

Products code: ECWF
Dielectric & construction: W
Rated voltage: 5
Capacitance: 6 7 8
7.5 mm Crimped lead: 9 R
Cap. Tol.: 10
Suffix: 11 B

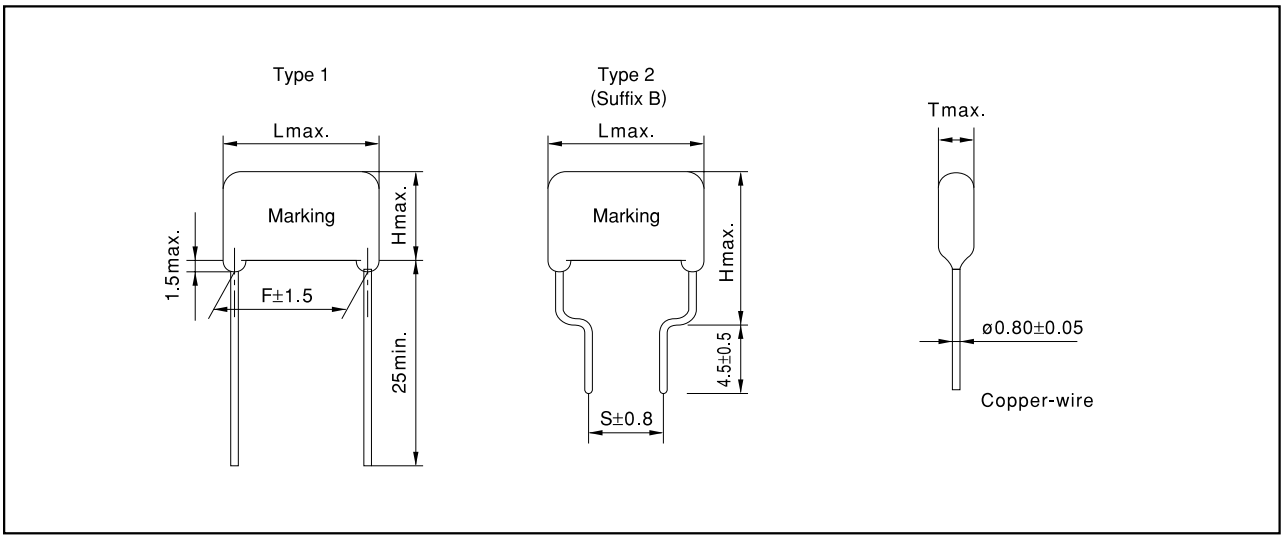
■Specifications

Category temp. range (Including temperature-rise on unit surface)	−25 ℃ to +105 ℃
Rated voltage	250 VDC(150 Vrms, 250 Vo-p), 400 VDC(200 Vrms, 400 Vo-p) (Derating of rated voltage by 1.25 %/℃ at more than 85 ℃)
Capacitance range	0.022 μF to 4.7 μF(250 VDC), 0.022 μF to 1.6 μF(400 VDC)
Capacitance tolerance	±3 %(H), ±5 %(J)
Dissipation factor (tanδ)	0.068 μF to 0.51 μF : tanδ≦0.05 % 0.56 μF to 4.7 μF : tanδ≦0.1 % (20˚C, 1 kHz) 0.068 μF to 4.7 μF : tanδ≦0.2 % (20 ℃, 10 kHz)
Withstand voltage	Between terminals : Rated volt. (VDC)×150 % 60 s
Insulation resistance (IR)	C≦0.33 μF : IR≧9000 MΩ C>0.33 μF : IR≧3000 MΩ . μF (20 ℃, 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”.

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■Dimensions in mm (not to scale)

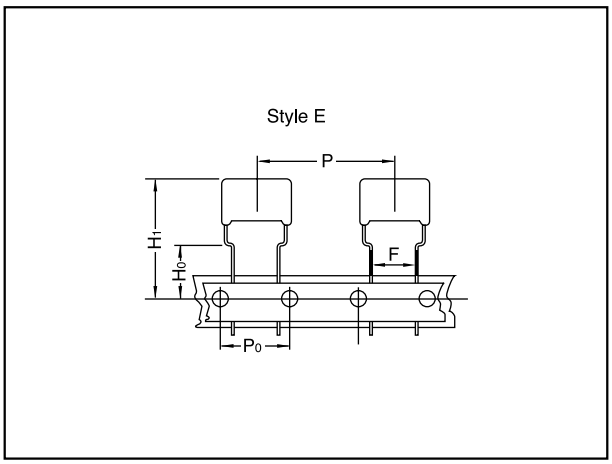


■Packaging Specifications for Bulk Package

Packing quantity:100 pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



※Refer to the page of taping specifications.

●Packaging Specification

Type	Rated volt.	Cap. range (μF)	Taping style						Packing
			AD	AS	B	C	D	E	
ECWF (B)	250 VDC	0.022 to 1.2						○	Ammo
	400 VDC	0.022 to 0.68						○	Ammo

※See the column “Rating, Dimensions & Quantity Box” for packing quantity.

●Lead Spacing

Style	Lead Spacing
E	7.5 mm

■Rating & Dimensions

●Rated voltage : 250 VDC(150 Vrms, 250 Vo-p) Cap. tolerance : ±3 %(H), ±5 %(J)

Part No.	Cap. (μF)	Dimensions (mm)							Quantity
		L max	T max	H max		F	S	ød	Ammo 7.5mm
				Type 1	Type 2	Type 1	Type 2		
ECWF2223□B( )	0.022	15.5	5.5	12.5	17.5	12.5	7.5	0.80	
ECWF2243□B( )	0.024	15.5	5.5	12.5	17.5	12.5	7.5	0.80	
ECWF2273□B( )	0.027	15.5	6.0	12.5	17.5	12.5	7.5	0.80	
ECWF2303□B( )	0.030	15.5	6.0	13.0	17.5	12.5	7.5	0.80	
ECWF2333□B( )	0.033	15.5	5.5	12.5	17.5	12.5	7.5	0.80	
ECWF2363□B( )	0.036	15.5	6.0	12.5	17.5	12.5	7.5	0.80	
ECWF2393□B( )	0.039	15.5	6.0	12.5	17.5	12.5	7.5	0.80	
ECWF2433□B( )	0.043	15.5	6.0	13.0	17.5	12.5	7.5	0.80	
ECWF2473□B( )	0.047	15.5	6.5	13.0	17.5	12.5	7.5	0.80	500
ECWF2513□B( )	0.051	15.5	6.5	13.5	17.5	12.5	7.5	0.80	
ECWF2563□B( )	0.056	15.5	6.5	13.5	17.5	12.5	7.5	0.80	
ECWF2623□B( )	0.062	15.5	7.0	14.0	17.5	12.5	7.5	0.80	
ECWF2683□B( )	0.068	18.0	6.0	13.0	18.0	15.0	10.0	0.80	
ECWF2753□B( )	0.075	18.0	6.5	13.0	18.0	15.0	10.0	0.80	
ECWF2823□B( )	0.082	18.0	6.5	13.5	18.5	15.0	10.0	0.80	
ECWF2913□B( )	0.091	18.0	7.0	13.5	18.5	15.0	10.0	0.80	
ECWF2104□B( )	0.10	18.0	7.0	14.0	19.0	15.0	10.0	0.80	
ECWF2114□B( )	0.11	18.0	7.5	14.0	19.0	15.0	10.0	0.80	
ECWF2124□B( )	0.12	18.0	7.5	14.5	19.5	15.0	10.0	0.80	400
ECWF2134□B( )	0.13	18.0	8.0	14.5	19.5	15.0	10.0	0.80	
ECWF2154□B( )	0.15	18.0	8.5	15.0	20.0	15.0	10.0	0.80	
ECWF2164□B( )	0.16	18.0	6.0	13.0	18.0	15.0	10.0	0.80	
ECWF2184□B( )	0.18	18.0	6.5	13.5	18.5	15.0	10.0	0.80	500
ECWF2204□B( )	0.20	18.0	7.0	13.5	18.5	15.0	10.0	0.80	
ECWF2224□B( )	0.22	18.0	7.0	14.0	19.0	15.0	10.0	0.80	
ECWF2244□B( )	0.24	18.0	7.5	14.0	19.0	15.0	10.0	0.80	
ECWF2274□B( )	0.27	18.0	8.0	14.5	19.5	15.0	10.0	0.80	
ECWF2304□B( )	0.30	18.0	8.0	15.0	20.0	15.0	10.0	0.80	400
ECWF2334□B( )	0.33	18.0	8.5	15.0	20.0	15.0	10.0	0.80	
ECWF2364□B( )	0.36	18.0	8.5	15.0	20.0	15.0	10.0	0.80	
ECWF2394□B( )	0.39	18.0	9.0	16.0	21.0	15.0	10.0	0.80	300
ECWF2434□B( )	0.43	18.0	9.5	16.0	21.0	15.0	10.0	0.80	
ECWF2474□B( )	0.47	23.0	8.0	15.0	20.0	20.0	12.5	0.80	
ECWF2514□B( )	0.51	23.0	8.5	15.0	20.0	20.0	12.5	0.80	400
ECWF2564□B( )	0.56	23.0	8.5	15.5	20.5	20.0	12.5	0.80	
ECWF2624□B( )	0.62	23.0	9.0	16.0	21.0	20.0	12.5	0.80	
ECWF2684□B( )	0.68	23.0	9.5	16.5	21.5	20.0	12.5	0.80	
ECWF2754□B( )	0.75	23.0	10.0	16.5	21.5	20.0	12.5	0.80	
ECWF2824□B( )	0.82	23.0	10.5	17.0	22.0	20.0	12.5	0.80	300
ECWF2914□B( )	0.91	23.0	11.0	17.5	22.5	20.0	12.5	0.80	
ECWF2105□B( )	1.0	23.0	11.5	18.0	23.0	20.0	12.5	0.80	
ECWF2115□B( )	1.1	23.0	12.0	19.0	24.0	20.0	12.5	0.80	
ECWF2125□B( )	1.2	23.0	12.5	19.5	24.5	20.0	12.5	0.80	
ECWF2135□B( )	1.3	23.0	13.0	20.0	25.0	20.0	12.5	0.80	
ECWF2155□B( )	1.5	23.0	14.0	21.0	26.0	20.0	12.5	0.80	
ECWF2165□B( )	1.6	28.0	11.5	20.5	25.5	25.0	17.5	0.80	
ECWF2185□B( )	1.8	28.0	12.5	21.0	26.0	25.0	17.5	0.80	
ECWF2205□B( )	2.0	28.0	13.0	22.0	27.0	25.0	17.5	0.80	
ECWF2225□B( )	2.2	28.0	14.0	22.5	27.5	25.0	17.5	0.80	
ECWF2245□B( )	2.4	28.0	14.5	23.0	28.0	25.0	17.5	0.80	–
ECWF2275□B( )	2.7	28.0	15.5	24.0	29.0	25.0	17.5	0.80	
ECWF2305□B( )	3.0	28.0	16.5	25.5	30.5	25.0	17.5	0.80	
ECWF2335□B( )	3.3	28.0	17.0	26.0	31.0	25.0	17.5	0.80	
ECWF2365□B( )	3.6	33.0	16.0	25.0	30.0	30.0	22.5	0.80	
ECWF2395□B( )	3.9	33.0	16.5	25.5	30.5	30.0	22.5	0.80	
ECWF2435□B( )	4.3	33.0	17.5	26.5	31.5	30.0	22.5	0.80	
ECWF2475□B( )	4.7	33.0	18.0	27.0	32.0	30.0	22.5	0.80	

Suffix for lead crimped or taped type
Cap. tol. code

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■Rating, Dimensions & Quantity/Ammo Box

●Type ECWF(B), Rated voltage : 400 VDC, Capacitance tolerance : ±3 %(H), ±5 %(J)

Part No.	Cap. (μF)	Dimensions (mm)							Quantity
		L max	T max	H max		F	S	ød	Ammo 7.5mm
				Type 1	Type 2	Type 1	Type 2		
ECWF4223□B( )	0.022	15.5	5.5	12.5	17.5	12.5	7.5	0.80	500
ECWF4243□B( )	0.024	15.5	5.5	12.5	17.5	12.5	7.5	0.80	
ECWF4273□B( )	0.027	15.5	6.0	12.5	17.5	12.5	7.5	0.80	
ECWF4303□B( )	0.030	15.5	6.0	13.0	18.0	12.5	7.5	0.80	
ECWF4333□B( )	0.033	15.5	5.5	12.5	17.5	12.5	7.5	0.80	
ECWF4363□B( )	0.036	15.5	6.0	12.5	17.5	12.5	7.5	0.80	
ECWF4393□B( )	0.039	15.5	6.0	12.5	17.5	12.5	7.5	0.80	
ECWF4433□B( )	0.043	15.5	6.0	13.0	18.0	12.5	7.5	0.80	
ECWF4473□B( )	0.047	15.5	6.5	13.0	18.0	12.5	7.5	0.80	
ECWF4513□B( )	0.051	15.5	6.5	13.5	18.5	12.5	7.5	0.80	
ECWF4563□B( )	0.056	15.5	6.5	13.5	18.5	12.5	7.5	0.80	
ECWF4623□B( )	0.062	15.5	7.0	14.0	19.0	12.5	7.5	0.80	
ECWF4683□B( )	0.068	18.0	6.5	13.0	18.0	15.0	10.0	0.80	
ECWF4753□B( )	0.075	18.0	6.5	13.5	18.5	15.0	10.0	0.80	
ECWF4823□B( )	0.082	18.0	7.0	13.5	18.5	15.0	10.0	0.80	
ECWF4913□B( )	0.091	18.0	7.0	14.0	19.0	15.0	10.0	0.80	
ECWF4104□B( )	0.10	18.0	7.5	14.0	19.0	15.0	10.0	0.80	400
ECWF4114□B( )	0.11	18.0	7.5	14.5	19.5	15.0	10.0	0.80	
ECWF4124□B( )	0.12	18.0	8.0	15.0	20.0	15.0	10.0	0.80	
ECWF4134□B( )	0.13	18.0	8.0	15.0	20.0	15.0	10.0	0.80	
ECWF4154□B( )	0.15	18.0	8.5	15.5	20.5	15.0	10.0	0.80	
ECWF4164□B( )	0.16	18.0	9.0	16.0	21.0	15.0	10.0	0.80	300
ECWF4184□B( )	0.18	18.0	9.5	16.5	21.5	15.0	10.0	0.80	
ECWF4204□B( )	0.20	20.0	9.0	16.0	21.0	17.0	10.0	0.80	
ECWF4224□B( )	0.22	20.0	9.5	16.5	21.5	17.0	10.0	0.80	
ECWF4244□B( )✻	0.24	20.0	10.0	16.5	21.5	17.0	10.0	0.80	
ECWF4274□B( )✻	0.27	20.0	10.5	17.0	22.0	17.0	10.0	0.80	
ECWF4304□B( )✻	0.30	20.0	11.0	17.5	22.5	17.0	10.0	0.80	
ECWF4334□B( )✻	0.33	20.0	11.5	18.0	23.0	17.0	10.0	0.80	
ECWF4364□B( )	0.36	23.0	12.5	20.0	25.0	20.0	12.5	0.80	
ECWF4394□B( )	0.39	23.0	13.5	20.5	25.5	20.0	12.5	0.80	
ECWF4434□B( )	0.43	23.0	14.0	21.0	26.0	20.0	12.5	0.80	200
ECWF4474□B( )	0.47	23.0	14.5	21.5	26.5	20.0	12.5	0.80	
ECWF4514□B( )	0.51	23.0	12.5	19.5	24.5	20.0	12.5	0.80	300
ECWF4564□B( )	0.56	23.0	13.0	20.0	25.0	20.0	12.5	0.80	
ECWF4624□B( )	0.62	23.0	14.0	21.0	26.0	20.0	12.5	0.80	200
ECWF4684□B( )	0.68	23.0	14.5	21.5	26.5	20.0	12.5	0.80	
ECWF4754□B( )	0.75	28.0	13.0	20.0	25.0	25.0	17.5	0.80	–
ECWF4824□B( )	0.82	28.0	14.0	20.5	25.5	25.0	17.5	0.80	
ECWF4914□B( )	0.91	28.0	14.5	21.5	26.5	25.0	17.5	0.80	
ECWF4105□B( )	1.0	28.0	15.0	22.0	27.0	25.0	17.5	0.80	
ECWF4115□B( )	1.1	28.0	16.0	22.5	27.5	25.0	17.5	0.80	
ECWF4125□B( )	1.2	28.0	16.5	23.5	28.5	25.0	17.5	0.80	
ECWF4135□B( )	1.3	28.0	17.0	24.0	29.0	25.0	17.5	0.80	
ECWF4155□B( )	1.5	28.0	18.5	25.5	30.5	25.0	17.5	0.80	
ECWF4165□B( )	1.6	28.0	19.5	26.5	31.5	25.0	17.5	0.80	

Suffix for lead crimped or taped type
Cap. tol. code

✻ Lead crimped type last Suffix is "P"

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