

Metallized Polypropylene Film Capacitor

Type: **ECWF(L)**

Designed for high frequency and current applications.

■Features

- Small size
- Excellent frequency characteristics
- Low loss
- 85 °C, 85 % RH, W.V.×1.0 for 500 hours
- RoHS directive compliant

■Recommended Applications

- Lighting
- 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						L	

Products code Dielectric & construction Rated voltage Capacitance Cap. Tol. Suffix Suffix

4	400 VDC
6	630 VDC

H	±3 %
J	±5 %

Suffix	Lead Form
Blank	Straight
B	Crimped lead
C	Cut lead

●Explanation of Part Numbers for Odd Size Taping

E	C	W	F					R		L
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Products code Dielectric & construction Rated voltage Capacitance Suffix Cap. Tol. Suffix

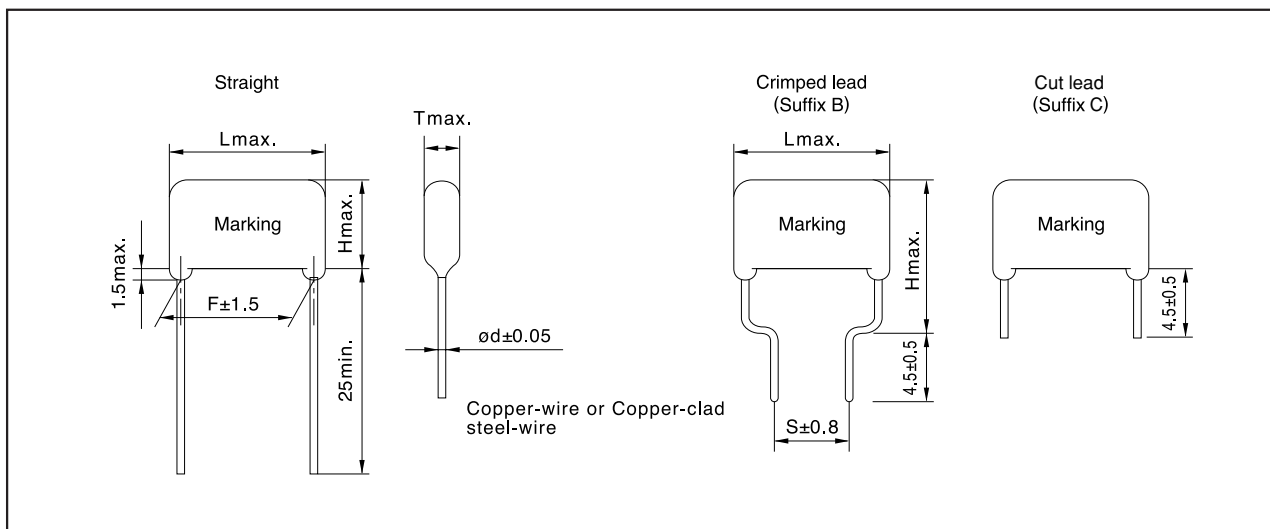
■Specifications

Category temp. range (Including temperature-rise on unit surface)	-40 °C to +105 °C	
Rated voltage	400 VDC, 630 VDC	
Capacitance range	400 VDC	0.022 uF to 2.4 uF
	630 VDC	0.010 uF to 1.3 uF
Capacitance tolerance	±3 % (H), ±5 % (J)	
Withstand voltage	Between terminals : Rated voltage(VDC)×150 % 60 s	
Dissipation factor (tanδ)	tanδ≤0.05% (20°C, 1kHz)	
	tanδ≤0.20% (20°C, 10kHz)	
Insulation resistance (IR)	C≤0.33 uF : IR≥9000 MΩ (20 °C, 100 VDC, 60 s for 400 VDC)	
	C>0.33 uF : IR≥3000 MΩ · uF (20 °C, 500 VDC, 60 s for 630 VDC)	

* 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)

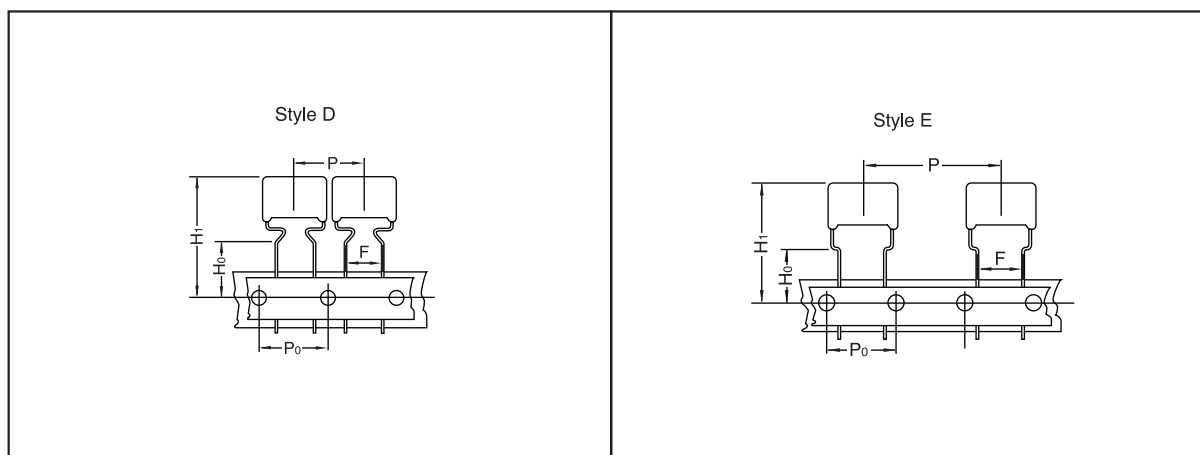


■Packaging Specification for Bulk Package

Packing quantity: 100 pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



※Refer to the page of taping specifications.

●Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style						Packing	suffix
			AD	AS	B	C	D	E		
ECWF(L)	400 VDC	0.022 to 0.091					○		Ammo	R() L
		0.10 to 1.0						○	Ammo	R() L
	630 VDC	0.010 to 0.043					○		Ammo	R() L
		0.047 to 0.43						○	Ammo	R() L

●Lead Spacing

Style	Lead Spacing
D	7.5 mm
E	7.5 mm

■Rating, Dimensions & Quantity/Ammo Box

●Type ECWF(L) Rated voltage : 400 VDC

Part No.	Cap. (μF)	Dimensions (mm)							Min. order Q'ty	
		L _{max}	T _{max}	H _{max}		F		S	ød	Taping 7.5mm
				Straight	Crimped lead	Straight	Crimped lead			
ECWF4223□L()	0.022	12.5	5.8	8.6	13.6	10.0	7.5	0.6		1100
ECWF4243□L()	0.024	12.5	6.0	8.8	13.8	10.0	7.5	0.6		
ECWF4273□L()	0.027	12.5	6.2	9.0	14.0	10.0	7.5	0.6		
ECWF4303□L()	0.030	12.5	6.4	9.3	14.3	10.0	7.5	0.6		1000
ECWF4333□L()	0.033	12.5	6.7	9.5	14.5	10.0	7.5	0.6		
ECWF4363□L()	0.036	12.5	5.7	8.4	13.4	10.0	7.5	0.6		900
ECWF4393□L()	0.039	12.5	5.8	8.6	13.6	10.0	7.5	0.6		
ECWF4433□L()	0.043	12.5	6.0	8.8	13.8	10.0	7.5	0.6		
ECWF4473□L()	0.047	12.5	6.2	9.0	14.0	10.0	7.5	0.6		1000
ECWF4513□L()	0.051	12.5	6.4	9.2	14.2	10.0	7.5	0.6		
ECWF4563□L()	0.056	12.5	6.6	9.4	14.4	10.0	7.5	0.6		
ECWF4623□L()	0.062	13.0	6.8	9.6	14.6	10.0	7.5	0.8		900
ECWF4683□L()	0.068	13.0	7.0	9.9	14.9	10.0	7.5	0.8		
ECWF4753□L()	0.075	13.0	7.3	10.1	15.1	10.0	7.5	0.8		
ECWF4823□L()	0.082	13.0	7.5	10.4	15.4	10.0	7.5	0.8		800
ECWF4913□L()	0.091	13.0	7.8	10.7	15.7	10.0	7.5	0.8		
ECWF4104□L()	0.10	15.5	6.5	11.0	16.0	12.5	7.5	0.8		
ECWF4114□L()	0.11	15.5	6.8	11.3	16.3	12.5	7.5	0.8		400
ECWF4124□L()	0.12	15.5	7.0	11.5	16.5	12.5	7.5	0.8		
ECWF4134□L()	0.13	15.5	7.2	11.8	16.8	12.5	7.5	0.8		
ECWF4154□L()	0.15	15.5	7.6	12.2	17.2	12.5	7.5	0.8		
ECWF4164□L()	0.16	15.5	7.8	12.4	17.4	12.5	7.5	0.8		
ECWF4184□L()	0.18	15.5	8.2	12.8	17.8	12.5	7.5	0.8		
ECWF4204□L()	0.20	15.5	8.6	13.3	18.3	12.5	7.5	0.8		
ECWF4224□L()	0.22	15.5	9.0	13.6	18.6	12.5	7.5	0.8		300
ECWF4244□L()	0.24	18.0	8.3	13.0	18.0	15.0	10.0	0.8		
ECWF4274□L()	0.27	18.0	8.8	13.4	18.4	15.0	10.0	0.8		
ECWF4304□L()	0.30	18.0	9.2	13.9	18.9	15.0	10.0	0.8		
ECWF4334□L()	0.33	18.0	9.6	14.3	19.3	15.0	10.0	0.8		
ECWF4364□L()	0.36	18.0	9.9	14.7	19.7	15.0	10.0	0.8		
ECWF4394□L()	0.39	18.0	10.3	15.1	20.1	15.0	10.0	0.8		
ECWF4434□L()	0.43	18.0	10.7	15.6	20.6	15.0	10.0	0.8		200
ECWF4474□L()	0.47	18.0	11.2	16.1	21.1	15.0	10.0	0.8		
ECWF4514□L()	0.51	20.5	10.3	16.8	21.8	17.5	12.5	0.8		
ECWF4564□L()	0.56	20.5	10.7	17.3	22.3	17.5	12.5	0.8		300
ECWF4624□L()	0.62	20.5	11.3	17.9	22.9	17.5	12.5	0.8		
ECWF4684□L()	0.68	20.5	11.8	18.5	23.5	17.5	12.5	0.8		
ECWF4754□L()	0.75	20.5	12.3	19.1	24.1	17.5	12.5	0.8		200
ECWF4824□L()	0.82	23.0	11.8	18.5	23.5	20.0	12.5	0.8		
ECWF4914□L()	0.91	23.0	12.4	19.2	24.2	20.0	12.5	0.8		
ECWF4105□L()	1.0	23.0	13.0	19.8	24.8	20.0	12.5	0.8		
ECWF4115□L()	1.1	23.0	13.6	20.5	25.5	20.0	12.5	0.8		
ECWF4125□L()	1.2	28.0	12.3	19.1	24.1	25.0	17.5	0.8		—
ECWF4135□L()	1.3	28.0	12.8	19.6	24.6	25.0	17.5	0.8		
ECWF4155□L()	1.5	28.0	13.7	20.7	25.7	25.0	17.5	0.8		
ECWF4165□L()	1.6	28.0	14.2	21.2	26.2	25.0	17.5	0.8		
ECWF4185□L()	1.8	28.0	15.2	22.2	27.2	25.0	17.5	0.8		
ECWF4205□L()	2.0	28.0	16.0	23.1	28.1	25.0	17.5	0.8		
ECWF4225□L()	2.2	28.0	16.8	24.0	29.0	25.0	17.5	0.8		
ECWF4245□L()	2.4	28.0	17.5	24.8	29.8	25.0	17.5	0.8		


 Suffix for lead crimped
 Capacitance tolerance code

■ Rating, Dimensions & Quantity/Ammo Box

● Type ECWF(L) Rated voltage : 630 VDC

Part No.	Cap. (μF)	Dimensions (mm)							Min. order Q'ty	
		L _{max}	T _{max}	H _{max}		F	S	ød	Taping 7.5mm	
				Straight	Crimped lead	Straight	Crimped lead			
ECWF6103□L()	0.010	12.5	5.2	8.0	13.0	10.0	7.5	0.6	1200	
ECWF6113□L()	0.011	12.5	5.4	8.2	13.2	10.0	7.5	0.6		
ECWF6123□L()	0.012	12.5	5.5	8.3	13.3	10.0	7.5	0.6		
ECWF6133□L()	0.013	12.5	5.6	8.5	13.5	10.0	7.5	0.6	1100	
ECWF6153□L()	0.015	12.5	5.9	8.7	13.7	10.0	7.5	0.6		
ECWF6163□L()	0.016	12.5	6.0	8.9	13.9	10.0	7.5	0.6		
ECWF6183□L()	0.018	12.5	6.2	9.1	14.1	10.0	7.5	0.6	1000	
ECWF6203□L()	0.020	12.5	6.5	9.3	14.3	10.0	7.5	0.6		
ECWF6223□L()	0.022	12.5	6.2	9.0	14.0	10.0	7.5	0.6		
ECWF6243□L()	0.024	12.5	6.4	9.2	14.2	10.0	7.5	0.6		
ECWF6273□L()	0.027	13.0	6.6	9.5	14.5	10.0	7.5	0.8	900	
ECWF6303□L()	0.030	13.0	6.9	9.7	14.7	10.0	7.5	0.8		
ECWF6333□L()	0.033	13.0	7.1	10.0	15.0	10.0	7.5	0.8		
ECWF6363□L()	0.036	13.0	7.3	10.2	15.2	10.0	7.5	0.8	800	
ECWF6393□L()	0.039	13.0	7.6	10.4	15.4	10.0	7.5	0.8		
ECWF6433□L()	0.043	13.0	7.9	10.7	15.7	10.0	7.5	0.8		
ECWF6473□L()	0.047	15.5	6.4	10.8	15.8	12.5	7.5	0.8	500	
ECWF6513□L()	0.051	15.5	6.6	11.0	16.0	12.5	7.5	0.8		
ECWF6563□L()	0.056	15.5	6.8	11.2	16.2	12.5	7.5	0.8	400	
ECWF6623□L()	0.062	15.5	7.1	11.5	16.5	12.5	7.5	0.8		
ECWF6683□L()	0.068	15.5	7.4	11.8	16.8	12.5	7.5	0.8		
ECWF6753□L()	0.075	15.5	7.7	12.1	17.1	12.5	7.5	0.8		
ECWF6823□L()	0.082	15.5	8.0	12.4	17.4	12.5	7.5	0.8		
ECWF6913□L()	0.091	15.5	8.3	12.7	17.7	12.5	7.5	0.8		
ECWF6104□L()	0.10	18.0	7.7	12.1	17.1	15.0	10.0	0.8		
ECWF6114□L()	0.11	18.0	8.0	12.4	17.4	15.0	10.0	0.8		
ECWF6124□L()	0.12	18.0	8.3	12.7	17.7	15.0	10.0	0.8	300	
ECWF6134□L()	0.13	18.0	8.5	13.0	18.0	15.0	10.0	0.8		
ECWF6154□L()	0.15	18.0	9.1	13.5	18.5	15.0	10.0	0.8		
ECWF6164□L()	0.16	18.0	9.3	13.8	18.8	15.0	10.0	0.8		
ECWF6184□L()	0.18	18.0	9.8	14.2	19.1	15.0	10.0	0.8		
ECWF6204□L()	0.20	18.0	10.3	14.7	19.7	15.0	10.0	0.8		
ECWF6224□L()	0.22	18.0	10.8	15.5	20.5	15.0	10.0	0.8		
ECWF6244□L()	0.24	18.0	11.2	15.9	20.9	15.0	10.0	0.8	200	
ECWF6274□L()	0.27	20.5	10.4	16.7	21.7	17.5	12.5	0.8		
ECWF6304□L()	0.30	20.5	10.9	17.2	22.2	17.5	12.5	0.8	300	
ECWF6334□L()	0.33	20.5	11.4	17.7	22.7	17.5	12.5	0.8		
ECWF6364□L()	0.36	20.5	11.9	18.5	23.5	17.5	12.5	0.8	200	
ECWF6394□L()	0.39	20.5	12.4	19.0	24.0	17.5	12.5	0.8		
ECWF6434□L()	0.43	20.5	13.0	19.5	24.5	17.5	12.5	0.8		
ECWF6474□L()	0.47	20.5	13.5	20.1	25.1	17.5	12.5	0.8	—	
ECWF6514□L()	0.51	28.0	11.1	17.3	22.3	25.0	17.5	0.8		
ECWF6564□L()	0.56	28.0	11.6	17.8	22.8	25.0	17.5	0.8		
ECWF6624□L()	0.62	28.0	12.1	18.7	23.7	25.0	17.5	0.8		
ECWF6684□L()	0.68	28.0	12.7	19.3	24.3	25.0	17.5	0.8		
ECWF6754□L()	0.75	28.0	13.3	19.9	24.9	25.0	17.5	0.8		
ECWF6824□L()	0.82	28.0	13.9	20.5	25.5	25.0	17.5	0.8		
ECWF6914□L()	0.91	28.0	14.6	21.2	26.2	25.0	17.5	0.8		
ECWF6105□L()	1.0	28.0	15.5	22.3	27.3	25.0	17.5	0.8		
ECWF6115□L()	1.1	28.0	16.3	23.0	28.0	25.0	17.5	0.8		
ECWF6125□L()	1.2	28.0	17.0	23.7	28.7	25.0	17.5	0.8		
ECWF6135□L()	1.3	28.0	17.6	24.4	29.4	25.0	17.5	0.8		


 Suffix for lead crimped
 Capacitance tolerance code