

for High Frequency Metallized Polypropylene Film Capacitor

Type: **ECWF**

Designed for applications where high current and high frequency are required

■Features

- Low-loss
- Excellent frequency characteristics
- Flame retardant epoxy resin coating

■Recommended Applications

- High frequency and high current circuits (TV, display, monitor, power supply etc.)
- ※ECWF(S) : TV, display only

■Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11
E	C	W	F							
Products code	Dielectric & construction		Rated voltage		Capacitance			Cap. Tol.	Suffix	Suffix
				2	250VDC(150Vrms, 250Vo-p)			H	±3%	Blank
				4	400VDC			J	±5%	Type1
										Type2
										Type2
										Crimped lead
										Crimped lead

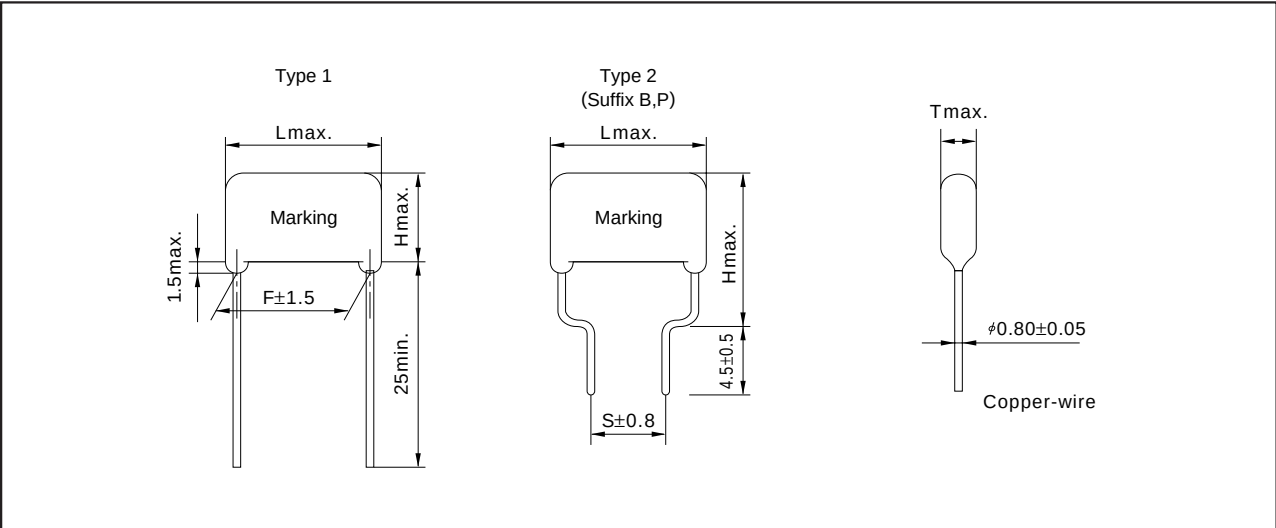
●Explanation of Part Numbers for Odd Size Taping

1	2	3	4	5	6	7	8	9	10	11
E	C	W	F					R		
Products code	Dielectric & construction		Rated voltage		Capacitance			7.5mm Crimped lead	Cap. Tol.	Suffix

■Specifications

Category temp. range	-25 to +85°C (+105°C.....75% of Rated voltage)	
Rated voltage	250VDC(150Vrms, 250Vo-p), 400VDC	
Capacitance range	0.022 to 4.7μF	
Capacitance tolerance	±3%(H), ±5%(J)	
Dissipation factor	250VDC	0.068 to 0.51μF : 0.05%max. (20°C, 1kHz) 0.56 to 4.7μF : 0.1%max. (20°C, 10kHz) 0.068 to 4.7μF : 0.2%max. (20°C, 10kHz)
	400VDC	0.1% max. (20°C, 1kHz)
Withstand voltage	Between terminals : Rated volt. (VDC)×150% 60s	
Insulation resistance	C≤0.33μF : 9000MΩ min. C>0.33μF : 3000MΩ . μFmin. (20°C, 100VDC, 60s)	

■Dimensions in mm (not to scale)

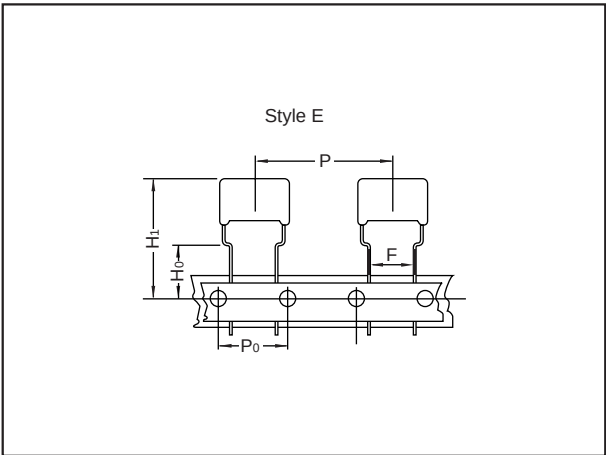


■Packaging Specifications for Bulk Package

Packing quantity: 100pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



※See page 22 for Taping dimensions.

●Packaging Specification

Type	Rated volt.	Cap. range (μF)	Taping style						Packing
			AD	AS	B	C	D	E	
ECWF (S)	250VDC	0.068 to 1.5						○	Ammo
ECWF (B)			0.022 to 1.2						○
	400VDC	0.022 to 0.68						○	Ammo

●Lead Spacing

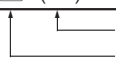
Style	Lead Spacing
E	7.5mm

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

■ Rating, Dimensions & Quantity/Ammo Box

● Type ECWF(S) Rated voltage : 250VDC(150Vrms, 250V_{o-p}) 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				
ECWF2683□S()	0.068	15.5	6.0	12.5	17.5	12.5	7.5	0.80	500
ECWF2753□S()	0.075	15.5	6.0	13.0	18.0	12.5	7.5	0.80	
ECWF2823□S()	0.082	15.5	6.0	13.0	18.0	12.5	7.5	0.80	
ECWF2913□S()	0.091	15.5	6.0	12.5	17.5	12.5	7.5	0.80	600
ECWF2104□S()	0.1	15.5	6.0	12.5	17.5	12.5	7.5	0.80	500
ECWF2114□S()	0.11	15.5	6.5	13.0	18.0	12.5	7.5	0.80	
ECWF2124□S()	0.12	15.5	7.0	13.0	18.0	12.5	7.5	0.80	
ECWF2134□S()	0.13	15.5	7.5	13.5	18.5	12.5	7.5	0.80	
ECWF2154□S()	0.15	15.5	7.0	12.5	17.5	12.5	7.5	0.80	
ECWF2164□S()	0.16	15.5	7.5	12.5	17.5	12.5	7.5	0.80	
ECWF2184□S()	0.18	15.5	7.0	13.0	18.0	12.5	7.5	0.80	
ECWF2204□S()	0.2	15.5	7.0	13.5	18.5	12.5	7.5	0.80	
ECWF2224□S()	0.22	15.5	7.5	13.5	18.5	12.5	7.5	0.80	
ECWF2244□S()	0.24	15.5	7.5	13.5	18.5	12.5	7.5	0.80	
ECWF2274□S()	0.27	18.0	8.0	13.0	18.0	15.0	10.0	0.80	
ECWF2304□S()	0.3	18.0	8.5	13.5	18.5	15.0	10.0	0.80	
ECWF2334□S()	0.33	18.0	9.5	13.5	18.5	15.0	10.0	0.80	
ECWF2364□S()	0.36	18.0	8.0	14.0	19.0	15.0	10.0	0.80	
ECWF2394□S()	0.39	18.0	9.0	14.0	19.0	15.0	10.0	0.80	400
ECWF2434□S()	0.43	18.0	10.0	14.5	19.5	15.0	10.0	0.80	
ECWF2474□S()	0.47	18.0	10.5	15.0	20.0	15.0	10.0	0.80	
ECWF2514□S()	0.51	18.0	11.5	15.0	20.0	15.0	10.0	0.80	
ECWF2564□S()	0.56	18.0	12.5	15.5	20.5	15.0	10.0	0.80	
ECWF2624□S()	0.62	18.0	12.0	16.0	21.0	15.0	10.0	0.80	300
ECWF2684□S()	0.68	18.0	12.5	16.0	21.0	15.0	10.0	0.80	
ECWF2754□S()	0.75	20.0	14.5	16.0	21.0	17.0	12.5	0.80	
ECWF2824□S()	0.82	20.0	15.0	16.0	21.0	17.0	12.5	0.80	
ECWF2914□S()	0.91	20.0	16.0	16.5	21.5	17.0	12.5	0.80	
ECWF2105□S()	1.0	20.0	16.0	17.0	22.0	17.0	12.5	0.80	
ECWF2115□S()	1.1	20.0	16.0	17.5	22.5	17.0	12.5	0.80	
ECWF2125□S()	1.2	20.0	16.0	18.0	23.0	17.0	12.5	0.80	
ECWF2135□S()	1.3	23.0	16.0	17.0	22.0	20.0	12.5	0.80	
ECWF2155□S()	1.5	23.0	16.0	18.0	23.0	20.0	12.5	0.80	
ECWF2165□S()	1.6	23.0	16.0	18.0	23.0	20.0		0.80	—
ECWF2185□S()	1.8	23.0	16.0	19.5	24.5	20.0		0.80	
ECWF2205□S()	2.0	23.0	16.0	20.0	25.0	20.0		0.80	
ECWF2225□S()	2.2	23.0	16.0	20.5	25.5	20.0		0.80	
ECWF2245□S()	2.4	23.0	16.0	21.0	26.0	20.0		0.80	
ECWF2275□S()	2.7	28.0	16.0	20.0	25.0	25.0		0.80	
ECWF2305□S()	3.0	28.0	16.0	20.5	25.5	25.0		0.80	
ECWF2335□S()	3.3	28.0	16.0	21.5	26.5	25.0		0.80	


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

■ Rating & Dimensions

● Rated voltage : 250VDC(150Vrms, 250V0-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				
ECWF2223□B()	0.022	15.5	5.5	12.5	17.5	12.5	7.5	0.80	500
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()	0.03	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	
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	400
ECWF2913□B()	0.091	18.0	7.0	13.5	18.5	15.0	10.0	0.80	
ECWF2104□B()	0.1	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	500
ECWF2184□B()	0.18	18.0	6.5	13.5	18.5	15.0	10.0	0.80	
ECWF2204□B()	0.2	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	400
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()	0.3	18.0	8.0	15.0	20.0	15.0	10.0	0.80	
ECWF2334□B()	0.33	18.0	8.5	15.0	20.0	15.0	10.0	0.80	300
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	
ECWF2434□B()	0.43	18.0	9.5	16.0	21.0	15.0	10.0	0.80	400
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	
ECWF2564□B()	0.56	23.0	8.5	15.5	20.5	20.0	12.5	0.80	300
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	
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	

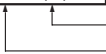
Suffix for lead crimped or taped type

Cap. tol. code

■ Rating, Dimensions & Quantity/Ammo Box

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

Part No.	Cap. (μ F)	Dimensions (mm)							Quantity
		L _{max}	T _{max}	H _{max}		F	S	ϕ d	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	400
ECWF4104□B()	0.1	18.0	7.5	14.0	19.0	15.0	10.0	0.80	
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()	0.2	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()*	0.3	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"