

Metallized Polyester Film Capacitor

Type: **ECQE(B)**

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

■Features

- Small size
- Excellent electrical characteristics
- Flame retardant epoxy resin coating
- RoHS directive compliant

■Recommended Applications

- General purpose usage
- ※Please contact us when applications are CDI , ignitor etc.



■Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	C	Q	E							B	
Products code		Dielectric & construction		Rated voltage		Capacitance			Cap.Tol.	Suffix	Suffix
				2	250 VDC				J	±5 %	
				1A	125 VAC				K	±10 %	

Suffix	Lead Form
Blank	Straight
B	Crimped lead
Z	Cut lead
2	Straight taping (Ammono)
3	Crimped taping (Ammono)
6	Crimped taping (Ammono)

■Explanation of Part Numbers for Odd Size Taping

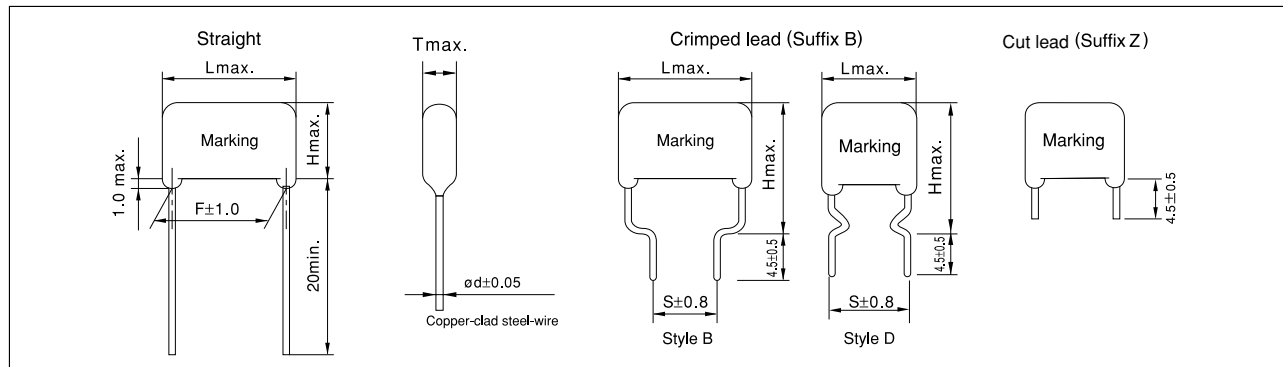
1	2	3	4	5	6	7	8	9	10	11	12
E	C	Q	E							R	B
Products code		Dielectric & construction		Rated voltage		Capacitance			Suffix	Cap. Tol.	Suffix

■Specifications

Category temp. range (Including temperature-rise on unit surface)	250 VDC	-40 °C to +105 °C
	125 VAC	-40 °C to +85 °C
Rated voltage	250 VDC, 125 VAC (250 VDC : Derating of rated voltage by 1.25 %/°C at more than 85 °C)	
Capacitance range	0.010 µF to 4.7 µF	
Capacitance tolerance	±5 % (J), ±10 % (K)	
Dissipation factor (tanδ)	tanδ ≤ 1.0 % (20 °C, 1 kHz)	
Withstand voltage	Rated volt. 250 VDC Between terminals : Rated vol. (VDC) × 150 % 60 s	
	Rated volt. 125 VAC Between terminals : Rated volt. (VAC) × 230 % 60 s Between terminals to enclosure: 1500 VAC 60 s	
Insulation resistance (IR)	250 VDC	C ≤ 0.33 µF : IR ≥ 9000 MΩ (20 °C, 100 VDC, 60 s) C > 0.33 µF : IR ≥ 3000 MΩ · µF (20 °C, 100 VDC, 60 s)
	125 VAC	C ≤ 0.47 µF : IR ≥ 2000 MΩ (20 °C, 500 VDC, 60 s) C > 0.47 µF : IR ≥ 3000 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".
- ※ Voltage to be applied to ECQE1A (B) is only sine wave (50 Hz or 60 Hz).

■Dimensions in mm (not to scale)

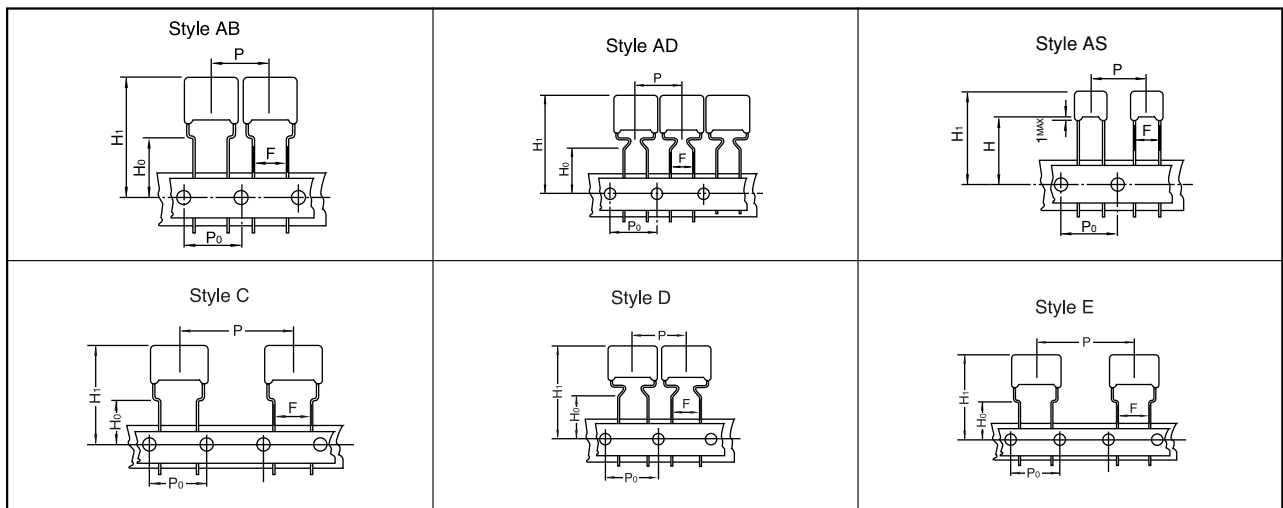


■Packaging Specifications for Bulk Package

Packing quantity : 100 pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



*Refer to the page of taping specifications.

●Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style							Packing	suffix
			AD	AS	AB	B	C	D	E		
ECQE(B)	250 VDC	0.010 to 0.15		○						Ammo	() B2
		0.010 to 0.68	○							Ammo	() B3
		0.82 to 1.5					○			Ammo	() B3
		0.18 to 0.68						○		Ammo	R() B
		0.82 to 4.7							○	Ammo	R() B
	125 VAC	0.010 to 0.068		○						Ammo	() B2
		0.082 to 0.22			○					Ammo	() B6
		0.27 to 2.7					○			Ammo	() B3
		0.082 to 0.68						○		Ammo	R() B
		0.82 to 2.7							○	Ammo	R() B

●Lead Spacing

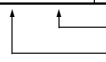
Style	Lead Spacing
AD	5.0 mm
AS	5.0 mm
AB	5.0 mm
C	5.0 mm
D	7.5 mm
E	7.5 mm

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

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage: 250 VDC, 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	ø d	Taping								
				Straight	Crimped lead	Straight	Crimped lead		Standard 5 mm	Odd size 5 mm	Odd size 7.5 mm						
ECQE2103□B()	0.010	7.9	4.2	7.1	12.1	5.0	5.0	0.50	2000	—	—						
ECQE2123□B()	0.012	7.9	4.2	7.1	12.1	5.0	5.0	0.50									
ECQE2153□B()	0.015	7.9	4.2	7.1	12.1	5.0	5.0	0.50									
ECQE2183□B()	0.018	7.9	4.3	7.2	12.2	5.0	5.0	0.50									
ECQE2223□B()	0.022	7.9	4.3	7.2	12.2	5.0	5.0	0.50									
ECQE2273□B()	0.027	7.9	4.3	7.2	12.2	5.0	5.0	0.50									
ECQE2333□B()	0.033	7.9	4.3	7.2	12.2	5.0	5.0	0.50	1500			—	—				
ECQE2393□B()	0.039	7.9	4.5	7.4	12.4	5.0	5.0	0.50									
ECQE2473□B()	0.047	7.9	4.5	7.4	12.4	5.0	5.0	0.50									
ECQE2563□B()	0.056	7.9	4.7	7.7	12.7	5.0	5.0	0.50									
ECQE2683□B()	0.068	7.9	5.1	8.0	13.0	5.0	5.0	0.50									
ECQE2823□B()	0.082	7.9	5.4	8.6	13.6	5.0	5.0	0.50									
ECQE2104□B()	0.10	7.9	5.9	9.0	14.0	5.0	5.0	0.50	1000					—	—		
ECQE2124□B()	0.12	7.9	5.7	10.6	15.6	5.0	5.0	0.50	1500								
ECQE2154□B()	0.15	7.9	6.3	11.2	16.2	5.0	5.0	0.50	1000								
ECQE2184□B()	0.18	10.3	5.0	9.7	14.7	7.5	5.0	0.50	1500		—					1500	
ECQE2224□B()	0.22	10.3	5.4	10.1	15.1	7.5	5.0	0.50									
ECQE2274□B()	0.27	10.3	5.9	10.8	15.8	7.5	5.0	0.50	1000							—	1000
ECQE2334□B()	0.33	10.3	6.4	11.3	16.3	7.5	5.0	0.50									
ECQE2394□B()	0.39	12.3	5.7	10.9	15.9	10.0	5.0	0.60									
ECQE2474□B()	0.47	12.3	6.2	11.4	16.4	10.0	5.0	0.60									
ECQE2564□B()	0.56	12.3	6.7	11.9	16.9	10.0	5.0	0.60									
ECQE2684□B()	0.68	12.3	7.3	12.7	17.7	10.0	5.0	0.60									
ECQE2824□B()	0.82	15.3	6.3	13.3	18.3	12.5	5.0	0.60	—	—			600				500
ECQE2105□B()	1.0	15.3	7.0	14.0	19.0	12.5	5.0	0.60					500				400
ECQE2125□B()	1.2	15.3	7.6	14.6	19.6	12.5	5.0	0.60					400				300
ECQE2155□B()	1.5	15.3	8.6	15.7	20.7	12.5	5.0	0.60					—				—
ECQE2185□B()	1.8	20.8	7.6	14.6	19.6	17.5	10.0	0.80									
ECQE2225□B()	2.2	20.8	8.4	15.6	20.6	17.5	10.0	0.80									
ECQE2275□B()	2.7	20.8	9.3	16.7	21.7	17.5	10.0	0.80									
ECQE2335□B()	3.3	20.8	10.5	17.9	22.9	17.5	10.0	0.80									
ECQE2395□B()	3.9	20.8	10.8	19.8	24.8	17.5	10.0	0.80									
ECQE2475□B()	4.7	20.8	11.9	21.0	26.0	17.5	10.0	0.80			200						


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

Style D: 0.010 μ F to 0.68 μ F
 Style B: 0.82 μ F to 4.7 μ F

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 125 VAC 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	ø d	Taping				
				Straight	Crimped lead	Straight	Crimped lead	Standard 5 mm		Odd size 5 mm	Odd size 7.5 mm			
ECQE1A103□B()	0.010	7.9	4.2	7.1		5.0		0.50	2000					
ECQE1A123□B()	0.012	7.9	4.2	7.1		5.0		0.50						
ECQE1A153□B()	0.015	7.9	4.2	7.1		5.0		0.50						
ECQE1A183□B()	0.018	7.9	4.3	7.2		5.0		0.50						
ECQE1A223□B()	0.022	7.9	4.3	7.2		5.0		0.50						
ECQE1A273□B()	0.027	7.9	4.3	7.2		5.0		0.50						
ECQE1A333□B()	0.033	7.9	4.3	7.2		5.0		0.50						
ECQE1A393□B()	0.039	7.9	4.5	7.4		5.0		0.50						
ECQE1A473□B()	0.047	7.9	4.8	7.7		5.0		0.50						
ECQE1A563□B()	0.056	7.9	5.1	8.0		5.0		0.50						
ECQE1A683□B()	0.068	7.9	5.4	8.6		5.0		0.50						
ECQE1A823□B()	0.082	10.3	4.6	7.6	12.6	7.5	7.5	0.50	1500		1500			
ECQE1A104□B()	0.10	10.3	5.1	7.7	12.7	7.5	7.5	0.50			1000			
ECQE1A124□B()	0.12	10.3	5.3	8.4	13.4	7.5	7.5	0.50						
ECQE1A154□B()	0.15	10.3	5.7	8.9	13.9	7.5	7.5	0.50						
ECQE1A184□B()	0.18	10.3	5.6	10.3	15.3	7.5	7.5	0.50						
ECQE1A224□B()	0.22	10.3	6.1	11.0	16.0	7.5	7.5	0.50						
ECQE1A274□B()	0.27	12.3	5.4	10.7	15.7	10.0	7.5	0.60			1000		800	
ECQE1A334□B()	0.33	12.3	5.9	11.2	16.2	10.0	7.5	0.60					700	
ECQE1A394□B()	0.39	12.3	6.4	11.6	16.6	10.0	7.5	0.60					600	
ECQE1A474□B()	0.47	12.3	7.0	12.2	17.2	10.0	7.5	0.60					500	900
ECQE1A564□B()	0.56	12.3	6.7	11.9	16.9	10.0	7.5	0.60					600	1000
ECQE1A684□B()	0.68	12.3	7.3	12.7	17.7	10.0	7.5	0.60	500	900				
ECQE1A824□B()	0.82	15.3	6.3	13.3	18.3	12.5	7.5	0.60	600	500				
ECQE1A105□B()	1.0	15.3	7.0	14.0	19.0	12.5	7.5	0.60	500	400				
ECQE1A125□B()	1.2	20.8	7.1	14.1	19.1	17.5	10.0	0.80	500	400				
ECQE1A155□B()	1.5	20.8	8.0	15.1	20.1	17.5	10.0	0.80						
ECQE1A185□B()	1.8	20.8	8.7	15.9	20.9	17.5	10.0	0.80		400			300	
ECQE1A225□B()	2.2	20.8	9.7	17.1	22.1	17.5	10.0	0.80						
ECQE1A275□B()	2.7	20.8	10.9	18.2	23.2	17.5	10.0	0.80	300					
ECQE1A335□B()	3.3	25.8	9.6	18.7	23.7	22.5	15.0	0.80	—	—				
ECQE1A395□B()	3.9	25.8	10.6	19.7	24.7	22.5	15.0	0.80						
ECQE1A475□B()	4.7	25.8	11.8	20.8	25.8	22.5	15.0	0.80						

Style D: 0.082 μ F to 0.68 μ F
 Style B: 0.82 μ F to 4.7 μ F

Notice for AC rated

AC rated capacitors complying with clause 1 of "Electrical Appliance and Material Safety Law".

As for clause 2 of "Electrical Appliance and Material Safety Law", please use ECQUL type or ECQUG type.

When using these capacitors as a across-the-line capacitor, it shall be required to follow either item 1. or item 2. condition.

1. Capacitor shall be connected in parallel with varistor (Specified varistor voltage in table 1.)
2. Voltage applied for capacitor shall not exceed other than specified in table 1, when using these capacitors.

Table 1

Cap. Rated Voltage	Varistor voltage	Pulse voltage
125 VAC	250 V	250 V _{0-P}