

Metallized Polyester Film Capacitor

Type : **ECQE(B)**

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



Features

- Self-healing property
- 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 number

1	2	3	4	5	6	7	8	9	10	11	12																						
E	C	Q	E							B																							
Product code		Dielectric & construction		Rated voltage		Capacitance			Cap. Tol.	Suffix	Suffix																						
				<table><tr><td>2</td><td>250 V.DC</td></tr><tr><td>1A</td><td>125 V.AC</td></tr></table>		2	250 V.DC	1A	125 V.AC				<table><tr><td>J</td><td>±5 %</td></tr><tr><td>K</td><td>±10 %</td></tr></table>	J	±5 %	K	±10 %	<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>Z</td><td>Cut lead</td></tr><tr><td>2</td><td>Straight taping (Ammo)</td></tr><tr><td>3</td><td>Crimped taping (Ammo)</td></tr><tr><td>6</td><td>Crimped taping (Ammo)</td></tr></table>		Code	Lead Form	Blank	Straight	B	Crimped lead	Z	Cut lead	2	Straight taping (Ammo)	3	Crimped taping (Ammo)	6	Crimped taping (Ammo)
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- Odd size taping

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

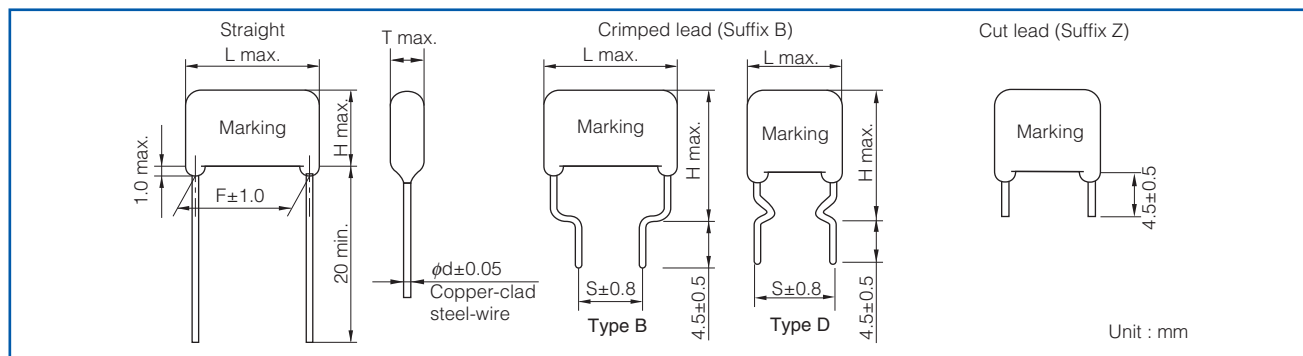
Specifications

Category temp. range (Including temperature-rise on unit surface)	250 V.DC	- 40 °C to +105 °C	
	125 V.AC	- 40 °C to +105 °C	
Rated voltage	250 V.DC, 125 V.AC (250 V.DC : Derating of rated voltage by 1.25 %/°C at more than 85 °C)		
Capacitance range	250 V.DC	0.010 μF to 4.7 μF (E12)	
	125 V.AC	0.010 μF to 4.7 μF (E12)	
Capacitance tolerance	±5 %(J), ±10 %(K)		
Dissipation factor (tan δ)	tan δ ≤ 1.0 % (20 °C, 1 kHz)		
Withstand voltage	• Rated volt. : 250 V.DC Between terminals : Rated volt. (V.DC)×150 %, 60 s		
	• Rated volt. : 125 V.AC Between terminals : Rated volt. (V.AC)×230 %, 60 s Between terminals to enclosure : 1500 V.AC, 60 s		
Insulation resistance (IR)	250 V.DC	C ≤ 0.33 μF : IR ≥ 9000 MΩ (20 °C, 100 V.DC, 60 s) C > 0.33 μF : IR ≥ 3000 MΩ · μF (20 °C, 100 V.DC, 60 s)	
	125 V.AC	C ≤ 0.47 μF : IR ≥ 2000 MΩ (20 °C, 500 V.DC, 60 s) C > 0.47 μF : IR ≥ 3000 MΩ · μF (20 °C, 100 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".

* Voltage to be applied to ECQE1A (B) is only sine wave (50 Hz or 60 Hz).

Dimensions

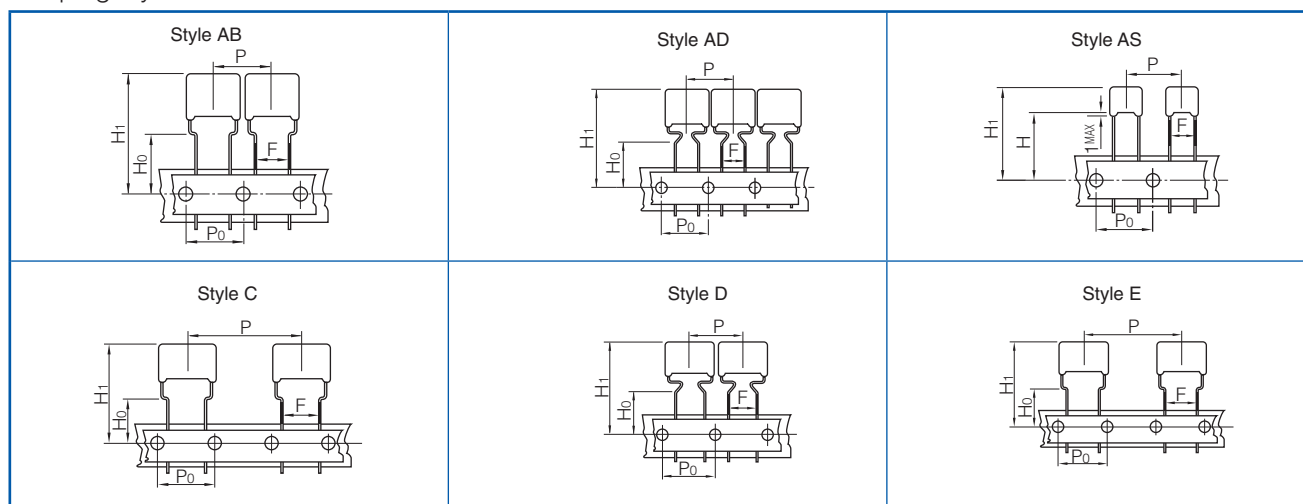


Packaging specifications for bulk package

- Packing quantity : 100 pcs./bag

Taping specifications for automatic insertion

- Taping style



* Refer to the page of taping specifications.

- Packaging specifications

Type	Rated voltage	Capacitance range (μF)	Taping style							Packing	suffix
			AD	AS	AB	B	C	D	E		
ECQE(B)	250 V.DC	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 V.AC	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" for packing quantity

Rating · Dimensions · Quantity

● Rated voltage : 250 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	φd	Taping			Bulk															
				Straight	Crimped lead	Straight	Crimped lead		Standard 5 mm	Odd size 5 mm	Odd size 7.5 mm	Straight · Crimped lead															
ECQE2103□B()	0.010	7.9	4.2	7.1	12.1	5.0	5.0	0.5	2000	-	-	500															
ECQE2123□B()	0.012	7.9	4.2	7.1	12.1	5.0	5.0	0.5																			
ECQE2153□B()	0.015	7.9	4.2	7.1	12.1	5.0	5.0	0.5																			
ECQE2183□B()	0.018	7.9	4.3	7.2	12.2	5.0	5.0	0.5																			
ECQE2223□B()	0.022	7.9	4.3	7.2	12.2	5.0	5.0	0.5																			
ECQE2273□B()	0.027	7.9	4.3	7.2	12.2	5.0	5.0	0.5																			
ECQE2333□B()	0.033	7.9	4.3	7.2	12.2	5.0	5.0	0.5																			
ECQE2393□B()	0.039	7.9	4.5	7.4	12.4	5.0	5.0	0.5	1500				-	-	500												
ECQE2473□B()	0.047	7.9	4.5	7.4	12.4	5.0	5.0	0.5																			
ECQE2563□B()	0.056	7.9	4.7	7.7	12.7	5.0	5.0	0.5																			
ECQE2683□B()	0.068	7.9	5.1	8.0	13.0	5.0	5.0	0.5																			
ECQE2823□B()	0.082	7.9	5.4	8.6	13.6	5.0	5.0	0.5	1000							-	-	500									
ECQE2104□B()	0.10	7.9	5.9	9.0	14.0	5.0	5.0	0.5	1500																		
ECQE2124□B()	0.12	7.9	5.7	10.6	15.6	5.0	5.0	0.5	1000																		
ECQE2154□B()	0.15	7.9	6.3	11.2	16.2	5.0	5.0	0.5	1500										-	-	500						
ECQE2184□B()	0.18	10.3	5.0	9.7	14.7	7.5	5.0	0.5			1500																
ECQE2224□B()	0.22	10.3	5.4	10.1	15.1	7.5	5.0	0.5	1000		-											-	500				
ECQE2274□B()	0.27	10.3	5.9	10.8	15.8	7.5	5.0	0.5																1000			
ECQE2334□B()	0.33	10.3	6.4	11.3	16.3	7.5	5.0	0.5																	1000		
ECQE2394□B()	0.39	12.3	5.7	10.9	15.9	10.0	5.0	0.6																		1000	
ECQE2474□B()	0.47	12.3	6.2	11.4	16.4	10.0	5.0	0.6																			1000
ECQE2564□B()	0.56	12.3	6.7	11.9	16.9	10.0	5.0	0.6																			
ECQE2684□B()	0.68	12.3	7.3	12.7	17.7	10.0	5.0	0.6	1000					-										-	500		
ECQE2824□B()	0.82	15.3	6.3	13.3	18.3	12.5	5.0	0.6		1000																600	500
ECQE2105□B()	1.0	15.3	7.0	14.0	19.0	12.5	5.0	0.6	1000																	500	400
ECQE2125□B()	1.2	15.3	7.6	14.6	19.6	12.5	5.0	0.6		1000																	
ECQE2155□B()	1.5	15.3	8.6	15.7	20.7	12.5	5.0	0.6	1000								400									300	
ECQE2185□B()	1.8	20.8	7.6	14.6	19.6	17.5	10.0	0.8		1000																	400
ECQE2225□B()	2.2	20.8	8.4	15.6	20.6	17.5	10.0	0.8	1000								400									300	
ECQE2275□B()	2.7	20.8	9.3	16.7	21.7	17.5	10.0	0.8		1000										400							300
ECQE2335□B()	3.3	20.8	10.5	17.9	22.9	17.5	10.0	0.8	1000				400				300										
ECQE2395□B()	3.9	20.8	10.8	19.8	24.8	17.5	10.0	0.8		1000										400		300					
ECQE2475□B()	4.7	20.8	11.9	21.0	26.0	17.5	10.0	0.8	1000				400				300										

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

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

Rating · Dimensions · Quantity

● Rated voltage : 125 V.AC, 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	ød	Taping			Bulk
				Straight	Crimped lead	Straight	Crimped lead			Standard 5 mm	Odd size 5 mm	Odd size 7.5 mm	Straight · Crimped lead
ECQE1A103□B()	0.010	7.9	4.2	7.1	—	5.0	—	0.5	2000	—	—	500	
ECQE1A123□B()	0.012	7.9	4.2	7.1		5.0		0.5					
ECQE1A153□B()	0.015	7.9	4.2	7.1		5.0		0.5					
ECQE1A183□B()	0.018	7.9	4.3	7.2		5.0		0.5					
ECQE1A223□B()	0.022	7.9	4.3	7.2		5.0		0.5					
ECQE1A273□B()	0.027	7.9	4.3	7.2		5.0		0.5					
ECQE1A333□B()	0.033	7.9	4.3	7.2		5.0		0.5					
ECQE1A393□B()	0.039	7.9	4.5	7.4		5.0		0.5	—	—	—		
ECQE1A473□B()	0.047	7.9	4.8	7.7		5.0		0.5					
ECQE1A563□B()	0.056	7.9	5.1	8.0		5.0		0.5					
ECQE1A683□B()	0.068	7.9	5.4	8.6		5.0		0.5					
ECQE1A823□B()	0.082	10.3	4.6	7.6	12.6	7.5	7.5	0.5	1500	—	1500		
ECQE1A104□B()	0.10	10.3	5.1	7.7	12.7	7.5	7.5	0.5			1000		
ECQE1A124□B()	0.12	10.3	5.3	8.4	13.4	7.5	7.5	0.5					
ECQE1A154□B()	0.15	10.3	5.7	8.9	13.9	7.5	7.5	0.5					
ECQE1A184□B()	0.18	10.3	5.6	10.3	15.3	7.5	7.5	0.5					
ECQE1A224□B()	0.22	10.3	6.1	11.0	16.0	7.5	7.5	0.5	1000				
ECQE1A274□B()	0.27	12.3	5.4	10.7	15.7	10.0	7.5	0.6	—	800	400		
ECQE1A334□B()	0.33	12.3	5.9	11.2	16.2	10.0	7.5	0.6		700			
ECQE1A394□B()	0.39	12.3	6.4	11.6	16.6	10.0	7.5	0.6		600			
ECQE1A474□B()	0.47	12.3	7.0	12.2	17.2	10.0	7.5	0.6		500	900		
ECQE1A564□B()	0.56	12.3	6.7	11.9	16.9	10.0	7.5	0.6		600	1000		
ECQE1A684□B()	0.68	12.3	7.3	12.7	17.7	10.0	7.5	0.6		500	900		
ECQE1A824□B()	0.82	15.3	6.3	13.3	18.3	12.5	7.5	0.6		600	500		
ECQE1A105□B()	1.0	15.3	7.0	14.0	19.0	12.5	7.5	0.6		500	400		
ECQE1A125□B()	1.2	20.8	7.1	14.1	19.1	17.5	10.0	0.8		500	300		
ECQE1A155□B()	1.5	20.8	8.0	15.1	20.1	17.5	10.0	0.8		400			
ECQE1A185□B()	1.8	20.8	8.7	15.9	20.9	17.5	10.0	0.8		300	—		
ECQE1A225□B()	2.2	20.8	9.7	17.1	22.1	17.5	10.0	0.8		—			
ECQE1A275□B()	2.7	20.8	10.9	18.2	23.2	17.5	10.0	0.8		—	—		
ECQE1A335□B()	3.3	25.8	9.6	18.7	23.7	22.5	15.0	0.8		—	—		
ECQE1A395□B()	3.9	25.8	10.6	19.7	24.7	22.5	15.0	0.8					
ECQE1A475□B()	4.7	25.8	11.8	20.8	25.8	22.5	15.0	0.8					

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

Type D : 0.082 μ F to 0.68 μ F
Type 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 ECQUA type or ECQUL 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

Capacitor rated voltage	Varistor voltage	Pulse voltage
125 V.AC	250 V	250 V _{0,P}

Mouser Electronics

Authorized Distributor

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

Panasonic:

[ECQ-E2125KB](#) [ECQ-E2475KB](#) [ECQ-E2153KBB](#) [ECQ-E2335KB](#) [ECQ-E2103KB3](#) [ECQ-E2104KB](#) [ECQ-E2105KB](#)
[ECQ-E2155KB](#) [ECQ-E2155KB3](#) [ECQ-E2185KB](#) [ECQ-E2225KB](#) [ECQ-E2274KB](#) [ECQ-E2275KB](#) [ECQ-E2395KB](#)
[ECQ-E2474KB](#) [ECQ-E2103JB](#) [ECQ-E2103JB3](#) [ECQ-E2103JBB](#) [ECQ-E2103KB](#) [ECQ-E2103KBB](#) [ECQ-E2104JB](#)
[ECQ-E2104JB3](#) [ECQ-E2104JBB](#) [ECQ-E2104KB3](#) [ECQ-E2104KBB](#) [ECQ-E2105JB](#) [ECQ-E2105JB3](#) [ECQ-E2105JBB](#)
[ECQ-E2105KB3](#) [ECQ-E2105KBB](#) [ECQ-E2105RJB](#) [ECQ-E2105RKB](#) [ECQ-E2123JB](#) [ECQ-E2123JB3](#) [ECQ-](#)
[E2123JBB](#) [ECQ-E2123KB3](#) [ECQ-E2123KBB](#) [ECQ-E2124JB](#) [ECQ-E2124JB3](#) [ECQ-E2124JBB](#) [ECQ-E2124KB](#)
[ECQ-E2124KB3](#) [ECQ-E2124KBB](#) [ECQ-E2125JB](#) [ECQ-E2125JB3](#) [ECQ-E2125JBB](#) [ECQ-E2125KB3](#) [ECQ-](#)
[E2125KBB](#) [ECQ-E2125RJB](#) [ECQ-E2125RKB](#) [ECQ-E2153JB](#) [ECQ-E2153JB3](#) [ECQ-E2153JBB](#) [ECQ-E2153KB](#)
[ECQ-E2153KB3](#) [ECQ-E2154JB](#) [ECQ-E2154JB3](#) [ECQ-E2154JBB](#) [ECQ-E2154KB](#) [ECQ-E2154KB3](#) [ECQ-E2154KBB](#)
[ECQ-E2155JB](#) [ECQ-E2155JB3](#) [ECQ-E2155JBB](#) [ECQ-E2155KBB](#) [ECQ-E2155RJB](#) [ECQ-E2155RKB](#) [ECQ-](#)
[E2183JB](#) [ECQ-E2183JB3](#) [ECQ-E2183JBB](#) [ECQ-E2183KB](#) [ECQ-E2183KB3](#) [ECQ-E2183KBB](#) [ECQ-E2184JB](#) [ECQ-](#)
[E2184JB3](#) [ECQ-E2184JBB](#) [ECQ-E2184KB](#) [ECQ-E2184KB3](#) [ECQ-E2184KBB](#) [ECQ-E2184RJB](#) [ECQ-E2184RKB](#)
[ECQ-E2185JB](#) [ECQ-E2185JBB](#) [ECQ-E2185KBB](#) [ECQ-E2185RJB](#) [ECQ-E2185RKB](#) [ECQ-E2223JB](#) [ECQ-E2223JB3](#)
[ECQ-E2223JBB](#) [ECQ-E2223KB](#) [ECQ-E2223KB3](#) [ECQ-E2223KBB](#) [ECQ-E2224JB](#) [ECQ-E2224JB3](#) [ECQ-](#)
[E2224JBB](#) [ECQ-E2224KB](#) [ECQ-E2224KB3](#) [ECQ-E2224KBB](#) [ECQ-E2224RJB](#) [ECQ-E2224RKB](#)